

THE COURSE STATES STATES STATES STATES

MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

STEAMERS SOON WAS SELECTED BOX SOON TRANSPORTED BY

Execute according according systems. Economical according to the property and the contract of the property of the contract of

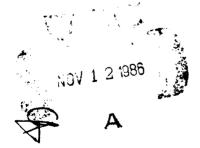
(12/61)

# data report

FRONTS CRUISE

Leg I: 1 - 11 July 1985

Leg II: 12 - 23 July 1985



SIO Reference 86-23 October 1986

This developed has been opproved for point of the developed of the state of the sta

86 11 12 042

THE FILE CO

REPÔRT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
	3. RECIPIENT'S CATALOG NUMBER
SIO Reference No. 86-23 4D-A1740	02
4. TITLE (and Subtitle)	5. TYPE OF REPORT & PERIOD COVERED
FRONTS CRUISE: Leg I: 1 - 11 July 1985	
Leg II: 12 - 23 July 1985	6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(*) L. R. Haury, P. M. Poulain, A. W. Mantyla,	8. CONTRACT OR GRANT NUMBER(s)
E. L. Venrick, and P. P. Niiler	N00014-85-C-0104
9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
Scripps Institution of Oceanography	
La Jolla, California 92093	
11. CONTROLLING OFFICE NAME AND ADDRESS	12. REPORT DATE
Office of Naval Research	October 1986
Arlington, Virginia 22217	13. NUMBER OF PAGES
14. MONITORING AGENCY NAME & ADDRESS(If different from Controlling Office)	15. SECURITY CLASS. (of this report)
	unclassified
	154. DECLASSIFICATION/DOWNGRADING SCHEDULE
	SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)	
Approved for public release; distribution unlimit	ted.
hippi oved for public feredae, also isacron unimit	
17. DISTRIBUTION STATEMENT (of the abetract entered in Block 20, if different fro	m Report)
•	
19. Cupa susual on No. 755	
18. SUPPLEMENTARY NOTES	
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)	
, .,	
·	
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)	
The data in this report were collected from 1	
legs of the FRONTS cruise aboard RV New Horizon of Oceanography. The data were collected and processe	
Research Division (ORD), the Marine Life Research (	
Nacional de Pesca (INP), the Secretaria de Marina,	
gacion Cientifica y de Educacion Superior de Ensena	ada (CICESE).
The purpose of the cruise was to describe the	vertical and horizontal

structure and dynamics of the physical, chemical, and biological properties...

# UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

# **FRONTS CRUISE**

LEG I: 1 - 11 July 1985

LEG II: 12 - 23 July 1985

L. R. Haury, P. M. Poulain, A. W. Mantyla, E. L. Venrick, and P. P. Niiler

Sponsored by

Office of Naval Research and Marine Life Research Group, Scripps Institution of Oceanography

SIO Reference 86-23

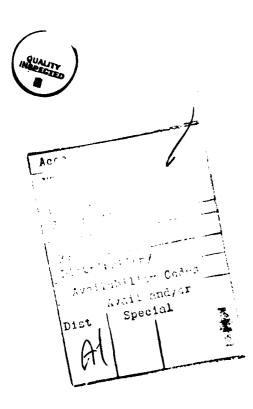
October 1986

Approved for distribution:

Edward A. Frieman, Director

# **CONTENTS**

Introduction	3
Literature Cited	7
List of Figures	9
Personnel	15
Tabulated CTD Data and Plots, Leg I	16
Station and Cast Description, Leg II	99
Tabulated Hydrographic Cast Data	100
Tabulated Primary Productivity Cast Data	120
Tabulated Macrozooplankton Data	124
Distribution List	130



## INTRODUCTION

The data in this report were collected from 1 to 23 July 1985 on the two legs of the FRONTS cruise aboard RV New Horizon of the Scripps Institution of Oceanography. The data were collected and processed by personnel of the Ocean Research Division (ORD), the Marine Life Research Group (MLRG), the Instituto Nacional de Pesca (INP), the Secretaria de Marina, and the Centro de Investigacion Cientifica y de Educacion Superior de Ensenada (CICESE).

The purpose of the cruise was to describe the vertical and horizontal structure and dynamics of the physical, chemical, and biological properties associated with a persistent, seasonally-recurring front in the California Current southwest of San Diego, California (Peláez and McGowan, in press).

## STANDARD PROCEDURES

Conductivity/Temperature/Depth Recorder (CTD) Data

A Neil Brown Instrument Systems Mark III CTD was used during Leg I on 81 stations with lowerings to 300 m or 500 m. The second portion of the CTD survey made three cross-sections through a strong cold frontal area detected in satellite Advanced Very High Resolution Radiometer images sent to the ship. Temperature and salinity calibration samples were taken with Niskin bottles hung on the CTD wire on five of the CTD casts. Station position was determined from Loran C fixes. Wind speed and direction were derived from the S.A.I.L. data acquisition system; anemometer height was about 12 m above sea level. XBTs were dropped between CTD stations; these data are not presented here.

CTD data recording and monitoring used a Hewlett-Packard HP 9000, Series 200 computer. After conversion into digital form, the 25Hz-sampled data of conductivity, temperature (Platinum Resistance Thermometer), fast temperature, pressure and oxygen concentration were recorded on 9-track magnetic tapes. 10 m interpolated observations were recorded onto micro-floppy disks. Coarse profiles were plotted and, as a back-up, the Frequency Shift Key modulated signals were recorded onto audio cassettes.

In the laboratory, the raw data from the magnetic tapes were further processed in the following sequence:

(a) Bad points and frames were rejected. Pressure, temperature (PRT) and conductivity were decoded. The conductivity signal was lagged for despiking salinity; a simple recursive filter was applied:

$$C(n) = \alpha C(n-1) + (1-\alpha)C_0(n)$$

where  $C_0(n)$  is the observed conductivity value and C(n) is the filtered value of the  $n^{th}$  scan, and  $\alpha$  is a constant determined by successive despiking attempts on one chosen profile. A value of 0.830 was taken for  $\alpha$ , corresponding to a time constant of 0.215 seconds.

Averages over 1 sec or 25 frames, whichever came first, were computed.

- (b) Residual temperature dependence was corrected by substracting from the readings of pressure:
  - for the downcast, a linear function of pressure varying from the initial offset at the surface to the after-cast offset at the bottom.
  - for the upcast, the constant after-cast pressure offset.

Hysteresis and non-linearity of the sensors were not corrected, as they were negligible for these shallow water casts. Neil Brown sensor calibrations were used as there was no statistically significant difference between bottle calibration data and both temperature and salinity. After pressure-to-depth conversion, data were linearly interpolated every 1 meter.

(c) From the interpolated data set, downcast values were extracted at 20 standard depths. Potential temperature and density, and geopotential anomaly were computed. Details on the algorithms used can be found in Fofonoff (1985).

#### Remarks:

- Stations 26 and 78 could not be retrieved from the 9-track tapes. The 10 m interpolated downcast data from the floppy discs were substituted for these stations. Comparisons of the two casts with adjacent stations showed good agreement.
- The oxygen data are not presented in this report.

#### Hydrographic Cast Data

The hydrographic casts made on Leg II consisted of 20 Nansen bottles lowered to a maximum sampling depth of 1000 meters. Temperature, salinity, oxygen, and nutrients were determined for all depths sampled. Chlorophyll a and phaeopigments were determined from the top 12 depths.

Paired protected reversing thermometers were used to determine temperatures which are recorded to hundredths of a degree Celsius. Sampling bottles used below a depth of 100 meters were equipped with unprotected thermometers for determination of the depth of sampling.

Salinity samples were analyzed at sea using inductive-type salinometers. Salinometers were standardized with sub-standard seawater. The sub-standard water was prepared from filtered seawater collected in 30-liter Niskin bottles from a depth of 400 m, gently evaporated to increase the salinity to near 35%. Periodic checks on the concentration of the substandard were made by comparison with Wormley Standard Seawater, batch P-78. The salinity values are reported to three decimal places.

Dissolved oxygen was determined by the Winkler method as modified by Carpenter (1965), using the equipment and procedure outlined by Anderson (1971). Percent oxygen saturation was calculated from the equations of Weiss (1970).

Silicate, phosphate, nitrate, and nitrite nutrients were determined at sea using an automated analyzer. The procedures used are similar to those described in Atlas et al. (1971).

Chlorophyll was measured with a fluorometric technique (Yentsch and Menzel, 1963; Holm-Hansen et al., 1965). Subsamples were drawn from the Nansen bottles and filtered onto GF/C filters. The filters were placed in scintillation vials containing 10 ml of 90% acetone and the pigments were extracted in the dark in a refrigerator for a period of one to three days. The samples were then brought to room temperature and the fluorescence of the sample was determined, before and after acidification, with a Turner 111 fluorometer. The potential biases in the technique are discussed in Venrick and Hayward (1984).

The observed data have been evaluated using the methodology described by Klein (1973). This involves consideration of their variation as functions of density or depth and their relation to each other, and comparisons with adjacent observations.

## Primary Productivity Casts

Primary production was estimated from  $^{14}$ C uptake using a simulated in situ technique. Light penetration was estimated from the Secchi depth (assuming that the 1% light level is three times the Secchi depth). Vertical profiles of photosynthetically active radiation (PAR) were obtained just after the Secchi disk casts with a Biospherical Instruments quantum scalar irradiance meter, model QSP 170BR; these data are not presented here. Six depths, corresponding to predetermined levels of light penetration, were sampled with 5 l Niskin bottles. Triplicate subsamples were drawn from each depth into 125 ml polycarbonate incubation bottles which were innoculated with  $10 \,\mu$ ci of  $^{14}$ C as

NaHCO<sub>3</sub>. Two light and one dark (control) bottle were then incubated approximately from local apparent noon to civil twilight in sea water cooled incubators with neutral density screens which simulate the *in situ* light levels. At the end of the incubation, the samples were filtered onto HA milipore filters and placed in scintillation vials. One-half ml of 10% HCl was added to each sample, which was then allowed to sit without a cap, at room temperature for 12 hours (after Lean and Burnison, 1979). Following this, 10 ml of scintillation fluor were added to each sample and the samples were returned to S.I.O. where the radioactivity was determined with a scintillation counter.

#### Macrozooplankton Samples

Bongo Net Tows -- Macrozooplankton was sampled at each station during Leg II with a 71 cm mouth diameter paired net (bongo net) equipped with 0.505 mm plankton mesh. The nets were towed obliquely from 210 m to the surface; tow time for a standard tow was 21.5 minutes. Volumes filtered were determined from flowmeter readings and the mouth area of the net. Both samples were retained and preserved. The biomass, as wet displacement volume, after removal of large (> 5 ml) organisms, was determined in the laboratory ashore. These procedures are summarized in greater detail in Kramer et al. (1972).

MOCNESS Net Tows -- A Multiple Opening-Closing Net and Environmental Sensing System (MOCNESS) was used to sample vertical distributions of macrozooplankton at two geographic locations during the second leg of the cruise. This net system has an effective mouth area of  $1 \text{ m}^2$  and was equipped with nets of  $333 \mu \text{m}$  mesh aperture. The 20 nets mounted on the frame permit collections of zooplankton from 16 strata. A more complete description of the system and its operation is presented in Wiebe et al. (1985). Wet displacement volumes were measured as with the bongo net samples.

## **TABULATED DATA**

#### CTD Cast Data

CTD cast dates are reported in Julian days and times in Greenwich Mean Time; date and time refer to the start time of the cast. Wind direction is presented using the World Meteorological Organization Code WMO 885/887, i.e., 1 = [5 to 14 degrees], ..., 36 = [355 to 4 degrees], 0 = no wind.

The flag at each depth has the following meaning:

- 1 = normal
- 2 = data missing, nearest depth value(s) has(ve) been used
- 3 = downcast data missing, filled with upcast values
- 4 = extrapolated values

A factor of 0.1 is needed if one wants to have the geopotential anomaly in dynamic meters.

Plots of each CTD cast are presented with the tabulated data. Downcast and upcast values of temperature, salinity and potential density are represented by thick and thin lines respectively; station number is in upper right corner of each plot.

# Hydrographic Cast Data

The reported hydrographic cast time is the Greenwich Mean Time (GMT) of the messenger release. Weather conditions have been coded using WMO Code 4051. Observed and interpolated standard depth data from hydrographic casts have been interspersed and are presented together sequentially by depth. Interpolated or extrapolated standard level data are noted by the footnote "ISL" printed after the depth. Density-related parameters have been calculated from the International Equation of State of Seawater 1980 (EOS80, UNESCO, 1981). Some of the differences between EOS80 and the older equations-of-state are discussed in the introduction to SIO Ref. 84-18. Computed values of potential temperature, sigma-theta, specific volume anomaly (SVA), dynamic height or geopotential anomaly, and pressure are included with both observed and interpolated standard depth levels.

## **Primary Productivity Casts**

In addition to the normal hydrographic data, the tabulated data include: the light levels at which the samples were incubated, the uptake from each of the replicate light bottles (uptake 1 and uptake 2) which have been corrected for dark uptake by subtracting the dark value, the mean of the two uptake values, the dark uptake, chlorophyll and phaeophytin. The uptake values shown are the total for the incubation period. The times of local apparent noon (LAN), civil twilight, and the vertically integrated value of the mean uptake from the surface to the deepest sample depth (assuming that the shallowest measured value extends to the surface and that negative values are zero) are also shown for each experiment. The uptake data have been presented to two significant digits (values < 1.00) or one decimal (values > 1.00). The higher production values may not warrant all of the significant digits presented. Incubation time, LAN, and civil twilight are given in local Pacific Standard Time (PST); to convert to GMT, add eight hours to the PST time.

# Macrozooplankton Data

Macrozooplankton biomass volumes are tabulated as total biomass volume (cm $^3$ /1000m $^3$  strained) minus the volume of larger organisms. Net tow times are reported in Pacific Daylight Time (PDT, GMT = PDT +7 hours).

#### Acknowledgements

SATER OF THE STATE OF THE STATE

This cruise was sponsored by Office of Naval Research contract N00014-85-C-0104 to P. P. Niiler and L. R. Haury, and by the Marine Life Research Group of Scripps Institution of Oceanography. Special thanks for Leg I go to Dr. L. Armi for providing the Neil Brown CTD and computer equipment, R. Olsen for helping in data acquisition and processing, and P. Flament for providing the data processing software. The portions of the cruise conducted in Mexican waters were made under the authority of Mexican Secretariat of External Relations Note No. 302082. We thank our Mexican colleagues who participated in the cruise for their hard work and cooperation that helped make the cruise a success.

#### LITERATURE CITED

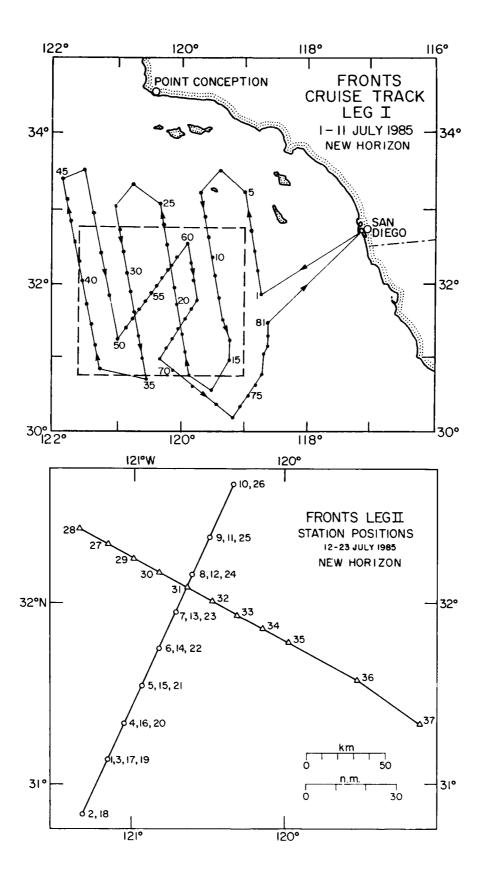
- Anderson, G. C., compiler, 1971. "Oxygen Analysis," Marine Technician's Handbook, SIO Ref. No. 71-8, Sea Grant Pub. No. 9.
- Atlas, E. L., J. C. Callaway, R. D. Tomlinson, L. I. Gordon, L. Barstow, and P. K. Park, 1971. A Practical Manual for Use of the Technicon<sup>R</sup> AutoAnalyzer<sup>R</sup> in Sea Water Nutrient Analysis; Revised. Oregon State University Technical Report 215, Reference No. 71-22.
- Carpenter, J. H., 1965. The Chesapeake Bay Institute technique for the Winkler dissolved oxygen method. Limnol. Oceanogr., 10: 141-143.
- Fofonoff, N. P., 1985. Physical properties of seawater: a new salinity scale and equation of state for seawater. J. Geophys. Res., 90: 3332-3342.
- Holm-Hansen, O., C. J. Lorenzen, R. W. Holmes, and J. D. H. Strickland, 1965. Fluorometric determination of chlorophyll. J. Cons. perm. int. Explor. Mer. 30: 3-15.
- Klein, Hans T., 1973. A new technique for processing physical oceanographic data. SIO Ref. No. 73-14.
- Kramer, D., M. J. Kalin, E. G. Stevens, J. R. Thrailkill, and J. R. Zweifel, 1972. Collecting and processing data on fish eggs and larvae in the California Current region. NOAA Technical Report NMFS CIRC-370: 38 pp.
- Lean, D. R. S., and B. K. Burnison, 1979. An evaluation of errors in the <sup>14</sup>C method of primary production measurement. *Limnol. Oceanogr.*, 24: 917-928.
- Peláez, J., and J. A. McGowan, in press. Phytoplankton pigment patterns in the California Current as determined by satellite. *Limnol. Oceanogr.*
- Scripps Institution of Oceanography, University of California, 1984. Physical, Chemical and Biological Data, CalCOFI Cruise 8401, 4-27 January 1984. SIO Ref. No. 84-18, 120 pp.
- UNESCO, 1981. Background papers and supporting data on the International Equation of State 1980. UNESCO Tech. Pap. in Mar. Sci., No. 38.

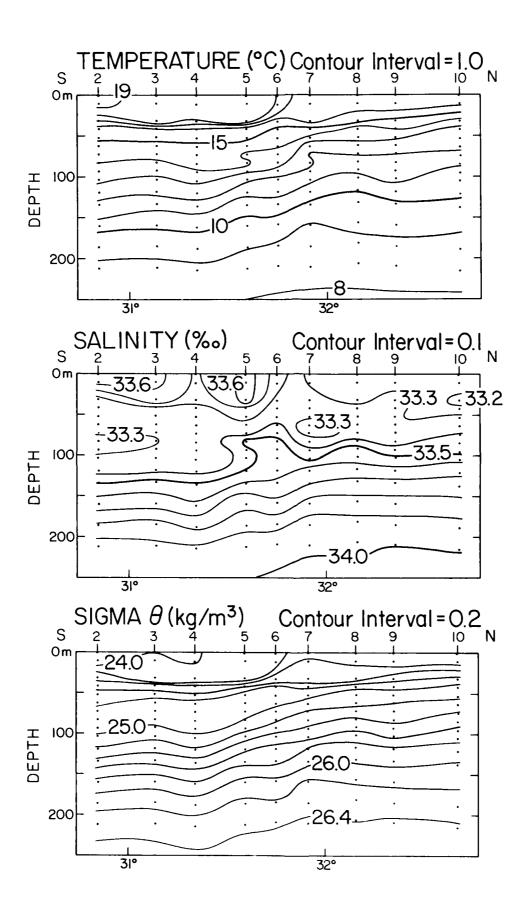
- Venrick, E. L., and T. L. Hayward, 1984. Determining chlorophyll on the 1984 CalCOFI surveys. Cal-COFI Rep., Vol. XXV: 74-79.
- Weiss, R. F., 1970. The solubility of nitrogen, oxygen and argon in water and seawater. *Deep-Sea Res.*, 17: 721-735.
- Wiebe, P. W., A. W. Morton, A. M. Bradley, R. H. Backus, J. E. Craddock, V. Barber, T. J. Cowles, and G. R. Flierl, 1985. New developments in the MOCNESS: an apparatus for sampling zooplankton and micronekton. *Mar. Biol.*, 87: 313-323.
- Yentsch, C. S., and D. W. Menzel, 1963. A method for the determination of phytoplankton chlorophyll and phaeophytin by fluorescence. *Deep-Sea Res.*, 10: 221-231.

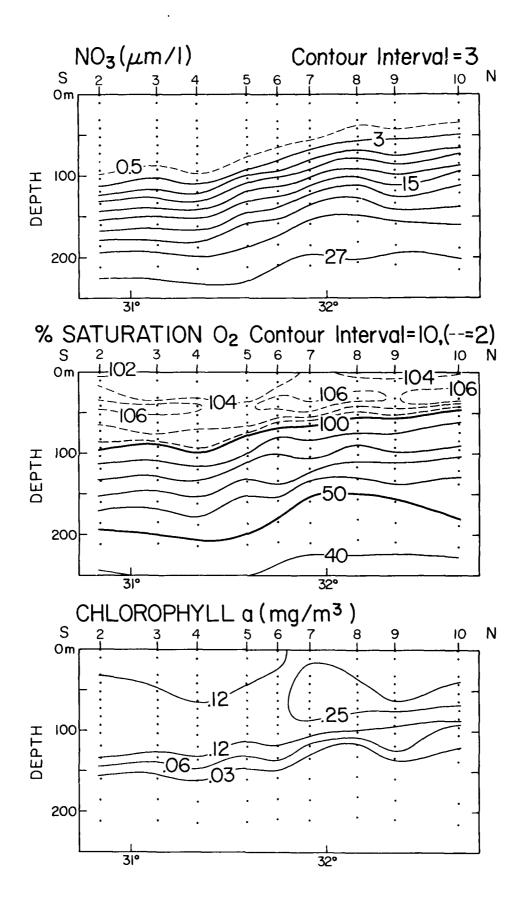
## **FIGURES**

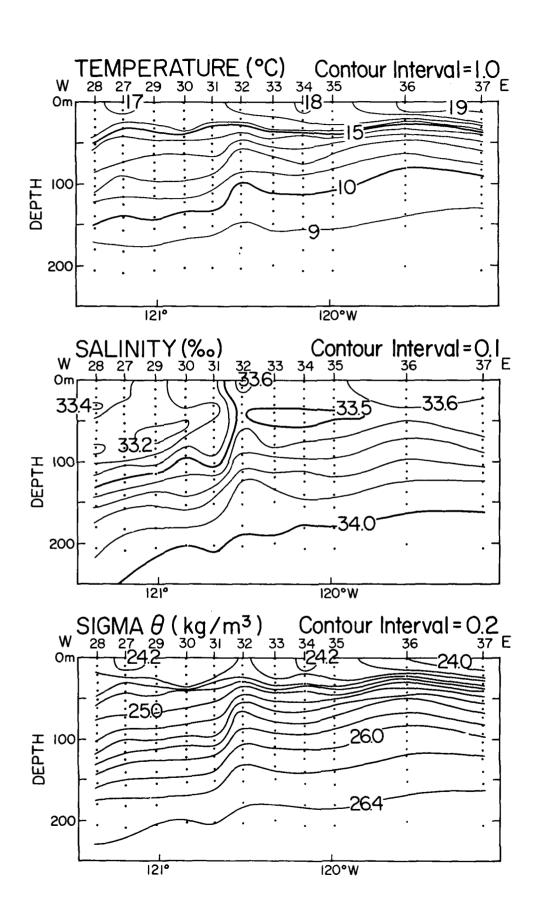
# **FRONTS Cruise**

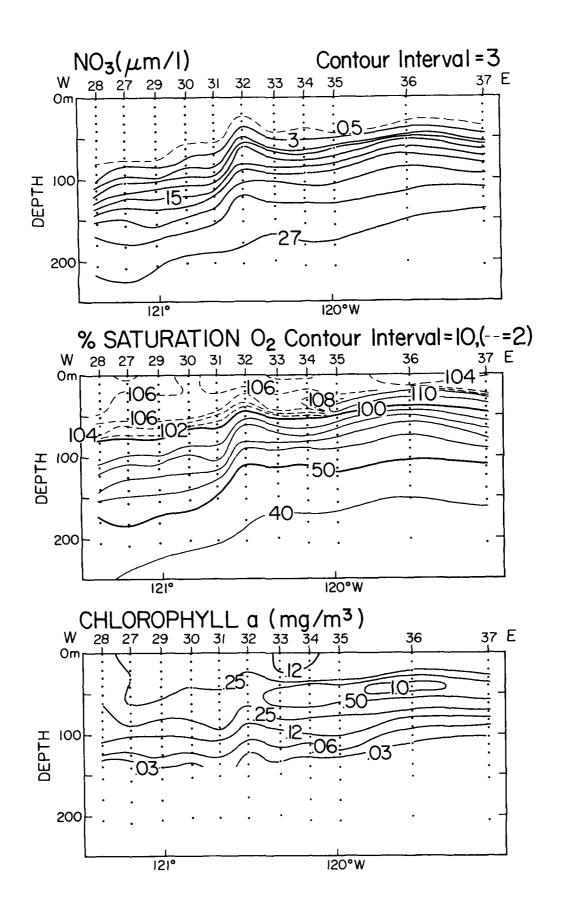
- FRONTS Leg I, cruise track and CTD station positions; dashed box outlines region shown in Figure 2.
- 2. FRONTS Leg II, station positions.
- 3. Leg II: temperature, salinity, and density sections to 250 m on south-to-north transect from Station 2 to Station 10.
- 4. Leg II: nitrate, percent oxygen saturation and chlorophyll a sections to 250 m on south-to-north transect from Station 2 to Station 10.
- 5. Leg II: temperature, salinity, and density sections to 250 m on west-to-east transect from Station 28 to Station 37.
- 6. Leg II: nitrate, percent oxygen saturation and chlorophyll a sections to 250 m on west-to-east transect from Station 28 to Station 37.











#### **PERSONNEL**

#### FRONTS CRUISE

#### SHIP'S CAPTAIN

TO THE PROPERTY OF THE PARTY OF

Munsch, Phillip L., RV New Horizon

#### PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

LEG I: 1 - 11 July 1985

Niiler, Pearn P. (Co-Chief Scientist) Haury, Loren R. (Co-Chief Scientist) Bryan, Walter R. Camacho I., Victor Hu. Jian-Hwa Kemper, Cecelia A. Lee, Dong-Kyu Martinez M., Guillermo Olsen, Richard R. Pillard, Eugene Poulain, Pierre-Marie Sandoval T., Eliseo Torres M., Guillermo Washington, Jean White, Henry J.

Professor, SIO

Assoc. Research Oceanographer, SIO

Marine Technician. SIO
Student. CICESE
Senior Programmer, SIO
Staff Research Associate, SIO
Programmer, SIO
Observer
Engineering Aid, SIO
Marine Technician, SIO
Graduate Student, SIO
Chief, Oceanographic Dept., INP
Research Aid, CICESE
Programmer, SIO
President, Technocean Assoc.

LEG II: 12 - 23 July 1985

Haury, Loren R.
(Chief Scientist)
Anderson, George C.
Clemente J., Luis
Fey, Connie L.
Fuentes, Pedro A.
Gaxiola C., Gilberto
McGowan, John A.
Sandoval T., Eliseo
Schmitt, James A.
Schmitt, Walter R.
Silva C., Santos
Venrick, Elizabeth L.
Willhoite, Brian
Wilson, Robert C.

Assoc. Research Oceanographer, SIO

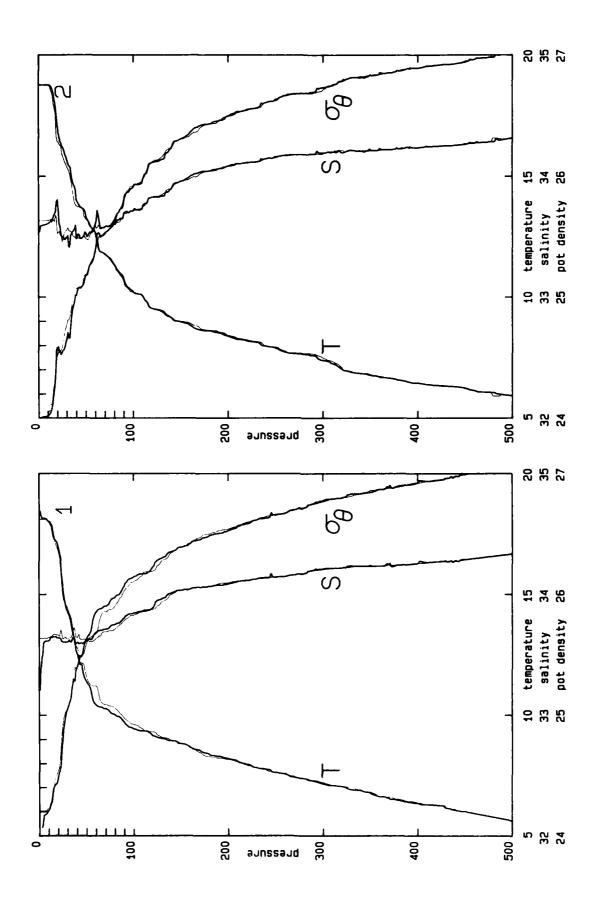
Staff Research Associate, SIO
Researcher, Secretaria de Marina
Staff Research Associate, SIO
Volunteer
Assoc. Researcher, CICESE
Professor, SIO
Chief, Oceanographic Dept., INP
Senior Electronics Technician, SIO
Staff Research Associate, SIO
Student, CICESE
Assoc. Research Oceanographer, SIO
Electronics Technician, SIO
Marine Technician, SIO

FRONTS I

	date:time julian: GMT			wind speed knots	wind direction WMO code	
1	183: 8:45	31 49.9 N	118 43.1 W	15	4	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
0	18.446	33.208	18.446	23.792	0.	2
10	18.006	33.618	18.004	24.214	0.38	1
20	16.979	33.642	16.976	24.479	0.74	1
30	14.278	33.608	14.274	25.055	1.06	1
40	12.523	33.604	12.518	25.407	1.33	1
50	11.390	33.622	11.384	25.634	1.58	1
60	10.425	33.688	10.418	25.857	1.80	1
70	10.266	33.715	10.258	25.905	2.02	1
80	10.013	33.752	10.004	25.977	2.23	1
90	9.676	33.808	9.666	26.077	2.43	1
100	9.423	33.848	9.412	26.150	2.62	1
125	9.069	33.950	9.056	26.287	3.08	1
150	8.811	34.033	8.795	26.394	3.51	1
175	8.422	34.059	8.404	26.474	3.91	1
200	8.178	34.089	8.158	26.535	4.30	1
225	7.845	34.124	7.823	26.612	4.68	1
250	7.616	34.140	7.591	26.658	5.04	1
300	7.133	34.215	7.105	26.786	5.73	1
400	6.303	34.276	6.267	26.947	6.97	1
500	5.585	34.342	5.543	27.090	8.09	4

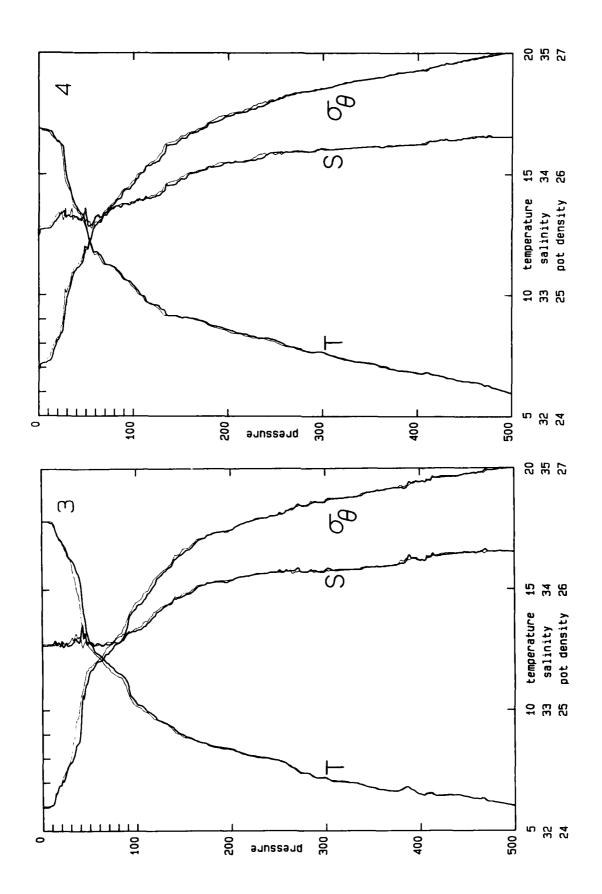
station date: time julian: GMT		longitude	wind speed knots	wind direction WMO code		
2	183:11:37	32 9.1 N	118 46.1 W	13	2	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
0	18.756	33.541	18.756	23.969	0.	2
10	18.760	33.607	18.758	24.019	0.39	1
20	17.045	33.800	17.042	24.585	0.77	1
30	15.677	33.487	15.672	24.658	1.10	1
40 .	14.001	33.474	13.995	25.010	1.42	1
50	13.299	33.521	13.292	25.190	1.70	1
60	12.655	33.611	12.647	25.387	1.98	1
70	11.788	33.584	11.779	25.531	2.22	1
80	11.339	33.612	11.329	25.636	2.47	1
90	10.732	33.708	10.721	25.819	2.70	1
100	10.199	33.725	10.187	25.925	2.91	1
125	9.477	33.828	9.463	26.126	3.41	1
150	8.962	33.959	8.946	26.312	3.87	1
175	8.610	34.041	8.592	26.432	4.29	1
200	8.377	34.086	8.356	26.503	4.69	1
225	8.149	34.115	8.126	26.560	5.08	1
250	7.867	34.163	7.842	26.640	5.45	1
300	7.376	34.195	7.347	26.736	6.15	1
400	6.439	34.239	6.403	26.900	7.42	1
500	5.896	34.321	5.852	27.035	8.58	4

TO THE PROPERTY OF THE PROPERT



FRONTS I

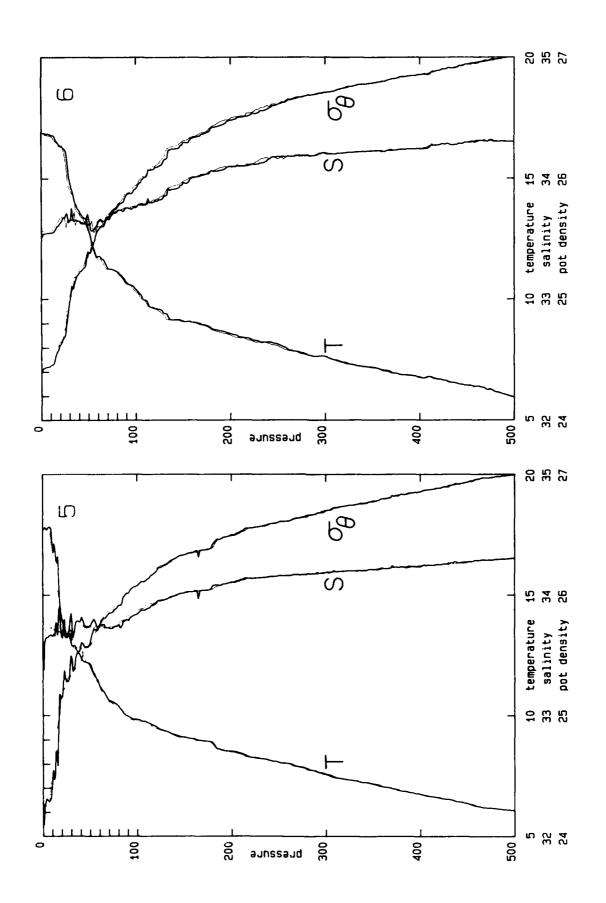
station	date: time	latitude	longitude	wind speed	wind direction	
	julian: GMT		•	knots	WMO code	
3	183:13:55	32 25.1 N	118 49.1 W	12	3	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	17.818	33.535	17.818	24.196	0.	2
10	17.746	33.538	17.744	24.216	0.37	1
20	17.048	33.535	17.045	24.380	0.74	1
30	16.263	33.543	16.258	24.569	1.08	1
40	15.367	33.578	15.361	24.797	1.41	1
50	12.830	33.565	12.823	25.317	1.69	1
60	12.305	33.552	12.297	25.409	1.96	1
70	11.924	33.542	11.915	25.473	2.21	1
80	11.535	33.557	11.525	25.557	2.46	1
90	11.115	33.634	11.104	25.694	2.70	1
100	10.259	33.668	10.247	25.870	2.92	1
125	9.552	33.828	9.538	26.114	3.44	1
150	8.940	33.950	8.924	26.308	3.89	1
175	8.531	34.054	8.513	26.454	4.31	1
200	8.356	34.074	8.335	26.497	4.71	1
225	8.039	34.126	8.016	26.585	5.09	1
250	7.876	34.156	7.851	26,633	5.46	1
300	7.158	34.170	7.129	26.747	6.16	1
400	6.468	34.239	6.432	26.896	7.46	1
500	5.972	34.304	5.928	27.012	8.62	4
		latituda	longitude	wind anad	-ind diseasion	
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
station 4	date:time julian: GMT 183:16: 2	latitude 32 41.4 N	longitude			
	julian: GMT		118 51.7 W	knots	WMO code 2 geopotential	flag
4	julian: GMT 183:16: 2	32 41.4 N	118 51.7 W	knots 8	WMO code 2	fla
4 depth	julian: GMT 183:16: 2 temperature (degree C)	32 41.4 N	potential temperature	knots 8 sigma-theta (kg/m <sup>3</sup> )	WMO code 2 geopotential anomaly	fla;
4 depth (m)	julian: GMT 183:16: 2 temperature	32 41.4 N	potential temperature (degree C)	knots 8 sigma-theta	WMO code 2 geopotential anomaly (m/s) <sup>2</sup>	
4 depth (m)	julian: GMT 183:16: 2 temperature (degree C)	32 41.4 N salinity 33.500	potential temperature (degree C)	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394	geopotential anomaly (m/s) <sup>2</sup>	2
4 depth (m) 0 10	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789	32 41.4 N salinity  33.500 33.552	potential temperature (degree C) 16.874 16.787	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454	geopotential anomaly (m/s) <sup>2</sup> 0. 0.35	2 1
4 depth (m) 0 10 20	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308	32 41.4 N salinity  33.500 33.552 33.633	potential temperature (degree C) 16.874 16.787 16.305	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628	geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69	2 1 1
4 depth (m) 0 10 20 30	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779	32 41.4 N salinity  33.500 33.552 33.633 33.658	potential temperature (degree C) 16.874 16.787 16.305 14.775	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987	wmo code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01	2 1 1 1
4 depth (m) 0 10 20 30 40	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779 13.627	32 41.4 N salinity  33.500 33.552 33.633 33.658 33.649	potential temperature (degree C) 16.874 16.787 16.305 14.775 13.621	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987 25.222	wmo code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30	2 1 1
4 depth (m) 0 10 20 30 40 50	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779 13.627 12.822	32 41.4 N salinity  33.500 33.552 33.633 33.658 33.649 33.660	potential temperature (degree C) 16.874 16.787 16.305 14.775 13.621 12.815	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987 25.222 25.392	wmo code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57	2 1 1 1 1 1 1
4 depth (m) 0 10 20 30 40 50 60	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779 13.627 12.822 11.790	32 41.4 N salinity  33.500 33.552 33.633 33.658 33.649 33.660 33.646	potential temperature (degree C)  16.874 16.787 16.305 14.775 13.621 12.815 11.782	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987 25.222 25.392 25.579	WMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57 1.82	2 1 1 1 1 1
4 depth (m)  0 10 20 30 40 50 60 70	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779 13.627 12.822 11.790 11.274	32 41.4 N salinity  33.500 33.552 33.633 33.658 33.649 33.660 33.646 33.659	potential temperature (degree C)  16.874 16.787 16.305 14.775 13.621 12.815 11.782 11.265	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987 25.222 25.392 25.579 25.684	WMO code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06	2 1 1 1 1 1 1
4 depth (m)  0 10 20 30 40 50 60 70 80	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779 13.627 12.822 11.790 11.274 11.138	32 41.4 N salinity  33.500 33.552 33.633 33.658 33.649 33.660 33.646 33.659 33.729	potential temperature (degree C)  16.874 16.787 16.305 14.775 13.621 12.815 11.782 11.265 11.128	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987 25.222 25.392 25.579 25.684 25.763	WMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29	2 1 1 1 1 1 1 1
4 depth (m)  0 10 20 30 40 50 60 70 80 90	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779 13.627 12.822 11.790 11.274 11.138 10.672	32 41.4 N salinity  33.500 33.552 33.633 33.658 33.649 33.660 33.646 33.659 33.729 33.756	potential temperature (degree C)  16.874 16.787 16.305 14.775 13.621 12.815 11.782 11.265 11.128 10.661	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987 25.222 25.392 25.579 25.684 25.763 25.867	WMO code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51	2 1 1 1 1 1 1 1 1 1 1
4 depth (m)  0 10 20 30 40 50 60 70 80 90 100	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779 13.627 12.822 11.790 11.274 11.138 10.672 10.381	32 41.4 N  salinity  33.500 33.552 33.633 33.658 33.649 33.660 33.646 33.659 33.729 33.756 33.758	potential temperature (degree C)  16.874 16.787 16.305 14.775 13.621 12.815 11.782 11.265 11.128 10.661 10.369	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987 25.222 25.392 25.579 25.684 25.763 25.867 25.920	WMO code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4 depth (m)  0 10 20 30 40 50 60 70 80 90 100 125	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779 13.627 12.822 11.790 11.274 11.138 10.672 10.381 9.572	32 41.4 N salinity  33.500 33.552 33.633 33.658 33.649 33.660 33.646 33.659 33.729 33.756 33.758 33.824	potential temperature (degree C)  16.874 16.787 16.305 14.775 13.621 12.815 11.782 11.265 11.128 10.661 10.369 9.558	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987 25.222 25.392 25.579 25.684 25.763 25.867 25.920 26.108	WMO code 2  geopotential anomaly (m/s) 2  0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72 3.22	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4 depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779 13.627 12.822 11.790 11.274 11.138 10.672 10.381 9.572 9.067	32 41.4 N salinity  33.500 33.552 33.633 33.658 33.649 33.660 33.646 33.659 33.729 33.756 33.758 33.824 33.964	potential temperature (degree C)  16.874 16.787 16.305 14.775 13.621 12.815 11.782 11.265 11.128 10.661 10.369 9.558 9.051	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987 25.222 25.392 25.579 25.684 25.763 25.867 25.920 26.108 26.299	WMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72 3.22 3.68	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4 depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779 13.627 12.822 11.790 11.274 11.138 10.672 10.381 9.572 9.067 8.890	32 41.4 N  salinity  33.500 33.552 33.633 33.658 33.649 33.660 33.646 33.659 33.758 33.758 33.758 33.824 33.964 34.036	potential temperature (degree C)  16.874 16.787 16.305 14.775 13.621 12.815 11.782 11.265 11.128 10.661 10.369 9.558 9.051 8.871	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987 25.222 25.392 25.579 25.684 25.763 25.867 25.920 26.108 26.299 26.384	WMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72 3.22 3.68 4.11	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779 13.627 12.822 11.790 11.274 11.138 10.672 10.381 9.572 9.067 8.890 8.557	32 41.4 N  salinity  33.500 33.552 33.633 33.658 33.649 33.660 33.659 33.729 33.756 33.758 33.824 33.964 34.036 34.095	potential temperature (degree C) 16.874 16.787 16.305 14.775 13.621 12.815 11.782 11.265 11.128 10.661 10.369 9.558 9.051 8.871 8.536	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987 25.222 25.392 25.579 25.684 25.763 25.867 25.920 26.108 26.299 26.384 26.482	WMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72 3.22 3.68 4.11 4.52	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4 depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779 13.627 12.822 11.790 11.274 11.138 10.672 10.381 9.572 9.067 8.890 8.557 8.296	32 41.4 N  salinity  33.500 33.552 33.633 33.658 33.649 33.660 33.646 33.729 33.756 33.758 33.824 33.964 34.036 34.095 34.114	potential temperature (degree C) 16.874 16.787 16.305 14.775 13.621 12.815 11.782 11.265 11.128 10.661 10.369 9.558 9.051 8.871 8.536 8.273	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987 25.222 25.392 25.579 25.684 25.763 25.867 25.920 26.108 26.299 26.384 26.482 26.537	WMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72 3.22 3.68 4.11 4.52 4.91	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250	julian: GMT 183:16: 2 temperature (degree C) 16.874 16.789 16.308 14.779 13.627 12.822 11.790 11.274 11.138 10.672 10.381 9.572 9.067 8.890 8.557 8.296 8.110	32 41.4 N  salinity  33.500 33.552 33.633 33.658 33.649 33.660 33.646 33.729 33.756 33.758 33.824 33.964 34.036 34.095 34.114 34.181	potential temperature (degree C) 16.874 16.787 16.305 14.775 13.621 12.815 11.782 11.265 11.128 10.661 10.369 9.558 9.051 8.871 8.536 8.273 8.085	knots 8 sigma-theta (kg/m <sup>3</sup> ) 24.394 24.454 24.628 24.987 25.222 25.392 25.579 25.684 25.763 25.867 25.920 26.108 26.299 26.384 26.482 26.537 26.618	WMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72 3.22 3.68 4.11 4.52 4.91 5.28	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



NEW	

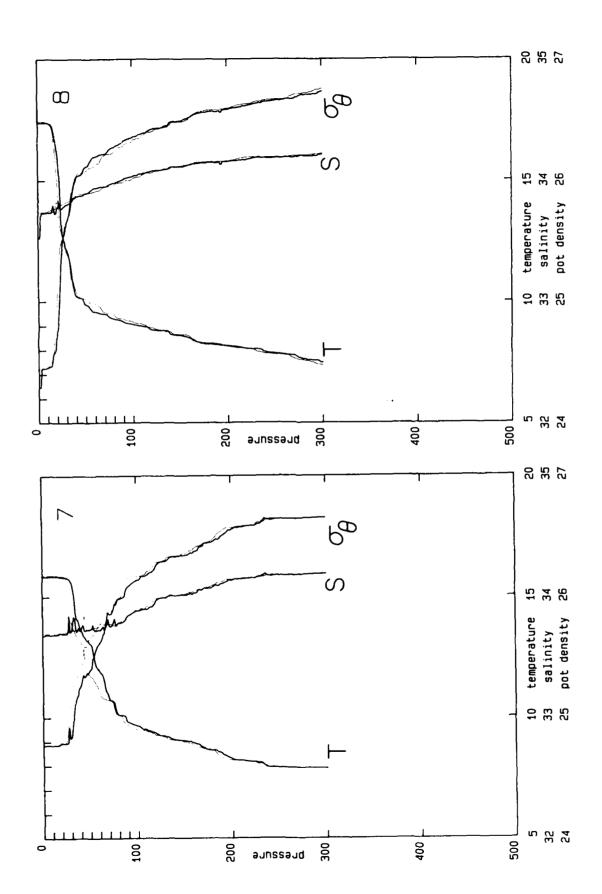
FRONTS I

tation	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
5	183:20:15	33 12.7 N	118 59.5 W	16	2	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
<b>(=)</b>	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	17.716	33.384	17.716	24.105	0.	2
10	17.187	33.657	17.185	24.441	0.36	1
20	13.999	33.659	13.996	25.152	0.68	1
30	13.008	33.846	13.004	25.499	0.95	1
40	12.430	33.795	12.425	25.573	1.20	1
50	12.049	33.739	12.043	25.602	1.44	1
60	11.242	33.742	11.235	25.754	1.67	1
70	10.622	33.719	10.614	25.847	1.89	1
80	10.376	33.754	10.367	25.917	2.11	1
90	9.965	33.786	9.955	26.012	2.32	1
100	9.833	33.845	9.822	26.080	2.51	1
125	9.411	33.952	9.397	26.234	2.99	1
150	9.094	34.018	9.078	26.337	3.43	1
175	8.923	34.042	8.904	26.384	3.85	1
200	8.488	34.106	8.467	26.502	4,25	1
225	8.239	34.142	8.216	26.568	4.64	1
250	8.045	34.160	8.020	26.611	5.01	1
300	7.554	34.190	7.525	26.707	5.73	1
400	6.731	34.245	6.694	26.866	7.05	1
500	6.052	34.307	6.008	27.004	8.23	4
station	date:time	latitude	longitude	wind speed	wind direction	
station 6	date:time julian: GMT 184: 6:10	1atitude 33 29.3 N	10ngitude 119 24.3 W	wind speed knots 24	wind direction WMO code 1	
	julian: GMT		119 24.3 W	knots	WMO code 1 geopotential	fla
6	julian: GMT 184: 6:10	33 29.3 N	119 24.3 W	knots 24	WMO code 1	fla
6 depth (m)	julian: GMT 184: 6:10 temperature (degree C)	33 29.3 N	potential temperature (degree C)	knots 24  sigma-theta (kg/m <sup>3</sup> )	geopotential anomaly (m/s) 2	
6 depth (m)	julian: GMT 184: 6:10 temperature (degree C)	33 29.3 N salinity 33.519	potential temperature (degree C)	knots 24  sigma-theta (kg/m <sup>3</sup> )  24.408	geopotential anomaly (m/s) 2	2
6 depth (m) 0 10	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788	33 29.3 N salinity 33.519 33.551	potential temperature (degree C) 16.873 16.786	knots 24 sigma-theta (kg/m <sup>3</sup> ) 24.408 24.453	geopotential anomaly (m/s) 2	2 1
6 depth (m) 0 10 20	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310	33 29.3 N salinity 33.519 33.551 33.633	potential temperature (degree C) 16.873 16.786 16.307	knots 24 sigma-theta (kg/m <sup>3</sup> ) 24.408 24.453 24.627	geopotential anomaly (m/s) 2  0. 0.35 0.69	2 1 1
6 depth (m) 0 10 20 30	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791	33 29.3 N salinity 33.519 33.551 33.633 33.655	potential temperature (degree C) 16.873 16.786 16.307 14.787	knots 24 sigma-theta (kg/m <sup>3</sup> ) 24.408 24.453 24.627 24.982	www code 1  geopotential anomaly (m/s) 2  0. 0.35 0.69 1.01	2 1 1
6 depth (m) 0 10 20 30 40	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644	33.519 33.551 33.633 33.655 33.650	potential temperature (degree C) 16.873 16.786 16.307 14.787 13.638	knots 24 sigma-theta (kg/m <sup>3</sup> ) 24.408 24.453 24.627 24.982 25.219	www code 1  geopotential anomaly (m/s) 2  0. 0.35 0.69 1.01 1.30	2 1 1 1
0 10 20 30 40 50	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644 12.827	33.519 33.551 33.633 33.655 33.650 33.652	potential temperature (degree C) 16.873 16.786 16.307 14.787 13.638 12.820	knots 24 sigma-theta (kg/m <sup>3</sup> ) 24.408 24.453 24.627 24.982 25.219 25.385	WMO code 1  geopotential anomaly (m/s) 2  0. 0.35 0.69 1.01 1.30 1.57	2 1 1 1 1
6 depth (m) 0 10 20 30 40 50 60	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644 12.827 11.781	33.519 33.551 33.633 33.655 33.650 33.652 33.652	potential temperature (degree C)  16.873 16.786 16.307 14.787 13.638 12.820 11.773	knots 24 sigma-theta (kg/m <sup>3</sup> ) 24.408 24.453 24.627 24.982 25.219 25.385 25.577	WMO code  1  geopotential anomaly (m/s) 2  0. 0.35 0.69 1.01 1.30 1.57 1.82	2 1 1 1 1 1 1
6 depth (m) 0 10 20 30 40 50 60 70	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644 12.827 11.781 11.281	33.519 33.551 33.633 33.655 33.650 33.652 33.663	potential temperature (degree C)  16.873 16.786 16.307 14.787 13.638 12.820 11.773 11.272	knots 24 sigma-theta (kg/m <sup>3</sup> ) 24.408 24.453 24.627 24.982 25.219 25.385 25.577 25.686	WMO code  1  geopotential anomaly (m/s) 2  0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06	2 1 1 1 1 1 1
6 depth (m) 0 10 20 30 40 50 60 70 80	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644 12.827 11.781 11.281 11.136	33.519 33.551 33.633 33.655 33.650 33.652 33.663 33.663 33.727	potential temperature (degree C)  16.873 16.786 16.307 14.787 13.638 12.820 11.773 11.272 11.126	knots 24 sigma-theta (kg/m <sup>3</sup> ) 24.408 24.453 24.627 24.982 25.219 25.385 25.577 25.686 25.762	WMO code  1  geopotential anomaly (m/s) 2  0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29	2 1 1 1 1 1 1 1
6 depth (m) 0 10 20 30 40 50 60 70 80 90	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644 12.827 11.781 11.281 11.136 10.673	33.519 33.551 33.633 33.655 33.650 33.652 33.663 33.727 33.756	potential temperature (degree C)  16.873 16.786 16.307 14.787 13.638 12.820 11.773 11.272 11.126 10.662	knots 24 sigma-theta (kg/m <sup>3</sup> ) 24.408 24.453 24.627 24.982 25.219 25.385 25.577 25.686 25.762 25.867	WMO code  1  geopotential anomaly (m/s) 2  0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51	2 1 1 1 1 1 1 1 1
6 depth (m) 0 10 20 30 40 50 60 70 80 90 100	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644 12.827 11.781 11.281 11.36 10.673 10.383	33.519 33.551 33.633 33.655 33.650 33.652 33.663 33.727 33.756 33.758	potential temperature (degree C)  16.873 16.786 16.307 14.787 13.638 12.820 11.773 11.272 11.126 10.662 10.371	knots 24 sigma-theta (kg/m <sup>3</sup> ) 24.408 24.453 24.627 24.982 25.219 25.385 25.577 25.686 25.762 25.867 25.919	WMO code  1  geopotential anomaly (m/s) 2  0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29	2 1 1 1 1 1 1 1 1 1
6 depth (m)  0 10 20 30 40 50 60 70 80 90 100 125	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644 12.827 11.781 11.281 11.36 10.673 10.383 9.573	33.519 33.551 33.633 33.655 33.650 33.652 33.663 33.727 33.756 33.758 33.824	potential temperature (degree C)  16.873 16.786 16.307 14.787 13.638 12.820 11.773 11.272 11.126 10.662 10.371 9.559	knots 24 sigma-theta (kg/m <sup>3</sup> ) 24.408 24.453 24.627 24.982 25.219 25.385 25.577 25.686 25.762 25.867 25.919 26.108	WMO code  1  geopotential anomaly (m/s) 2  0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72 3.22	2 1 1 1 1 1 1 1 1 1 1 1
6 depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644 12.827 11.781 11.281 11.136 10.673 10.383 9.573 9.067	33.519 33.551 33.633 33.655 33.650 33.652 33.663 33.727 33.756 33.758 33.824 33.964	potential temperature (degree C)  16.873 16.786 16.307 14.787 13.638 12.820 11.773 11.272 11.126 10.662 10.371 9.559 9.051	knots 24 sigma-theta (kg/m³) 24.408 24.453 24.627 24.982 25.219 25.385 25.577 25.686 25.762 25.762 25.867 25.919 26.108 26.299	WMO code 1  geopotential anomaly (m/s) 2  0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72 3.22 3.68	2 1 1 1 1 1 1 1 1 1 1 1 1
6 depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644 12.827 11.781 11.281 11.136 10.673 10.673 10.383 9.573 9.067 8.890	33.519 33.551 33.633 33.655 33.650 33.652 33.641 33.663 33.727 33.756 33.758 33.824 33.964 34.037	potential temperature (degree C)  16.873 16.786 16.307 14.787 13.638 12.820 11.773 11.272 11.126 10.662 10.371 9.559 9.051 8.871	knots 24 sigma-theta (kg/m³) 24.408 24.453 24.627 24.982 25.219 25.385 25.577 25.686 25.762 25.762 25.867 25.919 26.108 26.299 26.385	WMO code 1  geopotential anomaly (m/s) 2  0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72 3.22 3.68 4.11	2 1 1 1 1 1 1 1 1 1 1 1 1 1
6 depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644 12.827 11.781 11.281 11.281 11.36 10.673 10.673 10.383 9.573 9.067 8.890 8.557	33.519 33.551 33.633 33.655 33.650 33.652 33.641 33.663 33.727 33.756 33.758 33.824 33.964 34.037 34.094	potential temperature (degree C)  16.873 16.786 16.307 14.787 13.638 12.820 11.773 11.272 11.126 10.662 10.371 9.559 9.051 8.871 8.536	knots 24 sigma-theta (kg/m³) 24.408 24.453 24.627 24.982 25.219 25.385 25.577 25.686 25.762 25.762 25.867 25.919 26.108 26.299 26.385 26.482	WMO code 1  geopotential anomaly (m/s) 2  0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72 3.22 3.68 4.11 4.52	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6 depth (m)  0 10 20 30 40 50 60 70 80 90 105 155 150 175 200 225	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644 12.827 11.781 11.281 11.281 11.36 10.673 10.673 10.673 9.573 9.067 8.890 8.557 8.296	33.519 33.551 33.633 33.655 33.650 33.652 33.641 33.663 33.727 33.756 33.758 33.824 33.964 34.037 34.094 34.113	potential temperature (degree C)  16.873 16.786 16.307 14.787 13.638 12.820 11.773 11.272 11.126 10.662 10.371 9.559 9.051 8.871 8.536 8.273	knots 24 sigma-theta (kg/m³) 24.408 24.453 24.627 24.982 25.219 25.385 25.577 25.686 25.762 25.867 25.919 26.108 26.299 26.385 26.482 26.537	WMO code 1  geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72 3.22 3.68 4.11 4.52 4.91	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6 depth (m) 0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644 12.827 11.781 11.281 11.281 10.673 10.673 10.383 9.573 9.067 8.890 8.557 8.296 8.110	33.519 33.551 33.633 33.655 33.655 33.652 33.641 33.663 33.727 33.756 33.758 33.824 33.964 34.037 34.094 34.113 34.181	potential temperature (degree C)  16.873 16.786 16.307 14.787 13.638 12.820 11.773 11.272 11.126 10.662 10.371 9.559 9.051 8.871 8.536 8.273 8.085	knots 24 sigma-theta (kg/m <sup>3</sup> ) 24.408 24.453 24.627 24.982 25.219 25.385 25.577 25.686 25.762 25.867 25.919 26.108 26.299 26.385 26.482 26.537 26.618	WMO code 1  geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72 3.22 3.68 4.11 4.52 4.91 5.28	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6 depth (m)  0 10 20 30 40 50 60 70 80 90 105 155 150 175 200 225	julian: GMT 184: 6:10 temperature (degree C) 16.873 16.788 16.310 14.791 13.644 12.827 11.781 11.281 11.281 11.36 10.673 10.673 10.673 9.573 9.067 8.890 8.557 8.296	33.519 33.551 33.633 33.655 33.650 33.652 33.641 33.663 33.727 33.756 33.758 33.824 33.964 34.037 34.094 34.113	potential temperature (degree C)  16.873 16.786 16.307 14.787 13.638 12.820 11.773 11.272 11.126 10.662 10.371 9.559 9.051 8.871 8.536 8.273	knots 24 sigma-theta (kg/m³) 24.408 24.453 24.627 24.982 25.219 25.385 25.577 25.686 25.762 25.867 25.919 26.108 26.299 26.385 26.482 26.537	WMO code 1  geopotential anomaly (m/s) <sup>2</sup> 0. 0.35 0.69 1.01 1.30 1.57 1.82 2.06 2.29 2.51 2.72 3.22 3.68 4.11 4.52 4.91	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



FRONTS I

tation	date:time julian: GMT	latitude	long i tude	wind speed knots	wind direction WMO code	
7	184:10:10	33 11.6 N	119 41.3 W	26	5	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	15.842	33.680	15.842	24.769	0.	2
10	15.849	33.685	15.847	24.772	0.32	1
20	15.807	33.696	15.804	24.790	0.64	1
30	15.646	33.711	15.641	24.838	0.95	1
40	13.651	33.715	13.645	25.268	1.24	1
50	13.058	33.730	13.051	25.400	1.50	1
60	11.897	33.719	11.889	25.616	1.75	1
70	10.751	33.763	10.743	25.859	1.98	1
80	10.118	33.785	10.109	25.985	2.19	1
90	9.803	33.840	9.793	26.081	2.39	1
100	9.655	33.883	9.644	26.140	2.58	1
125	9.248	33.991	9.234	26.291	3.04	1
1 50	9.026	34.012	9.010	26.343	3.47	1
175	8.648	34.068	8.630	26.447	3.89	1
200	8.247	34.136	8.226	26.562	4.28	1
225	8.140	34.154	8.117	26.592	4.66	1
250	7.906	34.173	7.881	26.642	5.02	1
300	7.889	34.188	7.859	26.657	5.74	4
station	date: time	latitude	longitude	wind speed	wind direction	
	julian: GMT			knots	WMO code	
8	184:12:18	32 53.8 N	119 36.3 W	16	3	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	fla
(m)	(degree C)		(degree C)	$(k_g/m^3)$	(m/s) <sup>2</sup>	
0	17.379	33.531	17.379	24.298	0.	2
10	17.368	33.739	17.366	24.461	0.35	1
20	16.249	33.786	16.246	24.759	0.69	1
30	12.054	33.804	12.050	25.651	0.96	1
40	10.208	33.868	10.203	26.034	1.17	1
50	9.876	33.898	9.870	26.114	1.37	1
60	9.564	<b>33.937</b>	9.557	26.196	1.55	1
70	9.482	33.951	9.474	26.221	1.74	1
70	- •	55.751				
80	9.285	33.981	9.276	26.276	1.92	1
80 90	9.285 9.142	33.981 34.013	9.276 9.132	26.325	2.09	1
80 90 100	9.285 9.142 9.038	33.981 34.013 34.039	9.276 9.132 9.027	26.325 26.362	2.09 2.26	1 1
80 90 100 125	9.285 9.142 9.038 8.809	33.981 34.013 34.039 34.084	9.276 9.132 9.027 8.796	26.325 26.362 26.433	2.09 2.26 2.67	1 1 1
80 90 100 125 150	9.285 9.142 9.038 8.809 8.593	33.981 34.013 34.039 34.084 34.114	9.276 9.132 9.027 8.796 8.577	26.325 26.362 26.433 26.491	2.09 2.26 2.67 3.07	1 1 1
80 90 100 125 150 175	9.285 9.142 9.038 8.809 8.593 8.277	33.981 34.013 34.039 34.084 34.114 34.144	9.276 9.132 9.027 8.796 8.577 8.259	26.325 26.362 26.433 26.491 26.563	2.09 2.26 2.67 3.07 3.46	1 1 1 1
80 90 100 125 150 175 200	9.285 9.142 9.038 8.809 8.593 8.277 8.168	33.981 34.013 34.039 34.084 34.114 34.144 34.156	9.276 9.132 9.027 8.796 8.577 8.259 8.148	26.325 26.362 26.433 26.491 26.563 26.589	2.09 2.26 2.67 3.07 3.46 3.83	1 1 1 1 1
80 90 100 125 150 175 200 225	9.285 9.142 9.038 8.809 8.593 8.277 8.168 8.029	33.981 34.013 34.039 34.084 34.114 34.144 34.156 34.178	9.276 9.132 9.027 8.796 8.577 8.259 8.148 8.006	26.325 26.362 26.433 26.491 26.563 26.589 26.628	2.09 2.26 2.67 3.07 3.46 3.83 4.20	1 1 1 1 1 1
80 90 100 125 150 175 200	9.285 9.142 9.038 8.809 8.593 8.277 8.168	33.981 34.013 34.039 34.084 34.114 34.144 34.156	9.276 9.132 9.027 8.796 8.577 8.259 8.148	26.325 26.362 26.433 26.491 26.563 26.589	2.09 2.26 2.67 3.07 3.46 3.83	1 1 1 1 1



であるという。これできるという。 名のこのとの意味を含めてきる。 これを見るのとのできるとのできるとのできる。 これを必要されている。 これをとのではない。 これをとのではないでは、 これをとのではないではないでは、 これをとのではないる。 これをとのではない。 これをとのではない。 これをとのではないる。 これをいる。 これをいる。 これをいる これを

RY NEW HORIZON

date: time

station

FRONTS I

longitude

wind speed

wind direction

8.30

latitude

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
9	184:14:38	32 37.1 N	119 34.1 W	21	3	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	16.656	33.547	16.656	24.481	0.	2
10	16.656	33.660	16.654	24.568	0.34	1
20	14.195	33.655	14.192	25.108	0.65	1
30	12.973	33.648	12.969	25.352	0.93	1
40	12.532	33.662	12.527	25.450	1.19	1
50	12.195	33.658	12.188	25.512	1.44	1
60	11.304	33.745	11.297	25.745	1.68	1
70	10.603	33.745	10.595	25.870	1.90	1
80	10.197	33.752	10.188	25.946	2.11	1
90	9.920	33.774	9.910	26.010	2.31	1
100 125	9.579 9.015	33.826 33.873	9.568 9.002	26.108 26.236	2.51 2.98	1 1
	8.488	33.976			3.41	1
150 175	8.299	34.025	8.472 8.281	26.399 26.466	3.82	1
200	8.176	34.068	8.156	26.519	4.22	1
225	7.902	34.071	7.879	26.562	4.60	1
250	7.581	34.107	7.557	26.637	4.97	î
300	7.287	34.174	7.258	26.732	5.67	1
400	6.384	34.245	6.348	26.911	6.95	ī
500	6.035	34.307	5.991	27.006	8.11	ī
station	date: time	latitude	longitude	wind speed	wind direction	
	julian: GMT			knots	WMO code	
10	184:17: 5	32 20.5 N	119 30.1 W	22	36	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	16.830	33.490	16.830	24.396	0.	2
10	16.800	33.586	16.798	24.478	0.35	1
20	16.635	33.635	16.632	24.554	0.69	1
30	14.118	33.564	14.114	25.054	1.01	1
40	13.673	33.651	13.667	25.214	1.29	1
50	12.932	33.572	12.925	25.302	1.56	1
60 70	12.302 11.666	33.531 33.527	12.294 11.657	25.393 25.510	1.83 2.08	1
80	11.084	33.591	11.074	25.666	2.33	1
90	10.433	33.609	10.422	25.794	2.55	1
100	10.075	33.669	10.064	25.902	2.77	1
125	9.361	33.832	9.347	26.148	3.26	ī
150	8.607	33.952	8.591	26.362	3.71	1
175	8.392	33.995	8.374	26.429	4.12	1
200	8,262	34.114	8.241	26.542	4.52	1
225	7.897	34.146	7.874	26.622	4.89	1
250	7.675	34.173	7.650	26.676	5.26	1
300	7.021	34.224	6.993	26.809	5.94	1
400	6.391	34.281	6.355	26.939	7.17	1
500	6.015	34.315	5.971	27.015	8.30	1

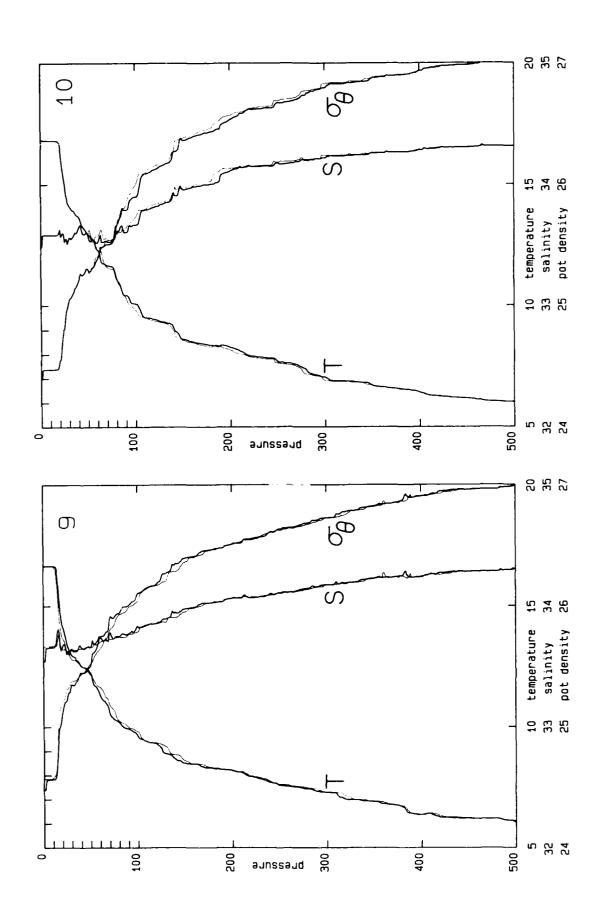
5.971

27.015

500

6.015

34.315

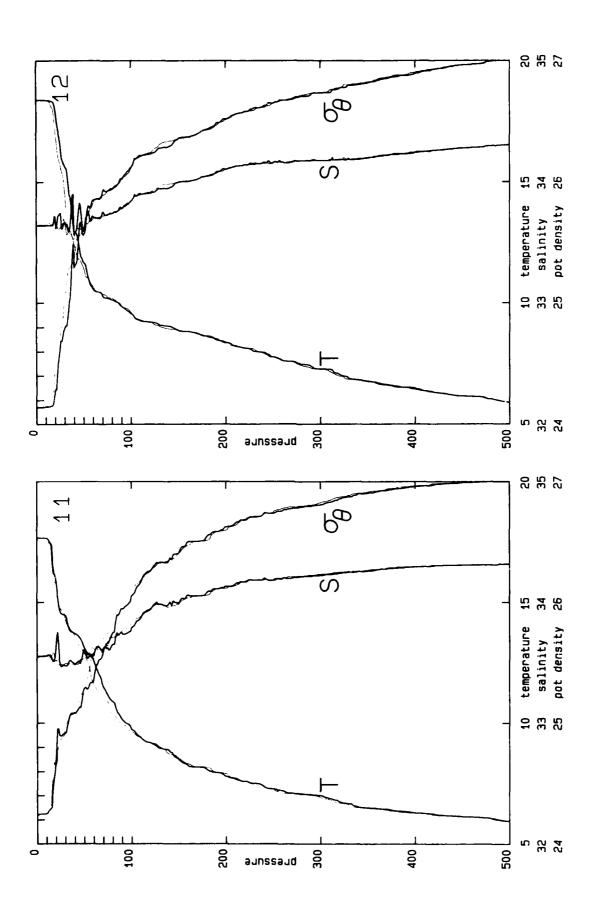


Todale cassists respect boulded booker respected by the books of the b

	HORIZO	

FRONTS I

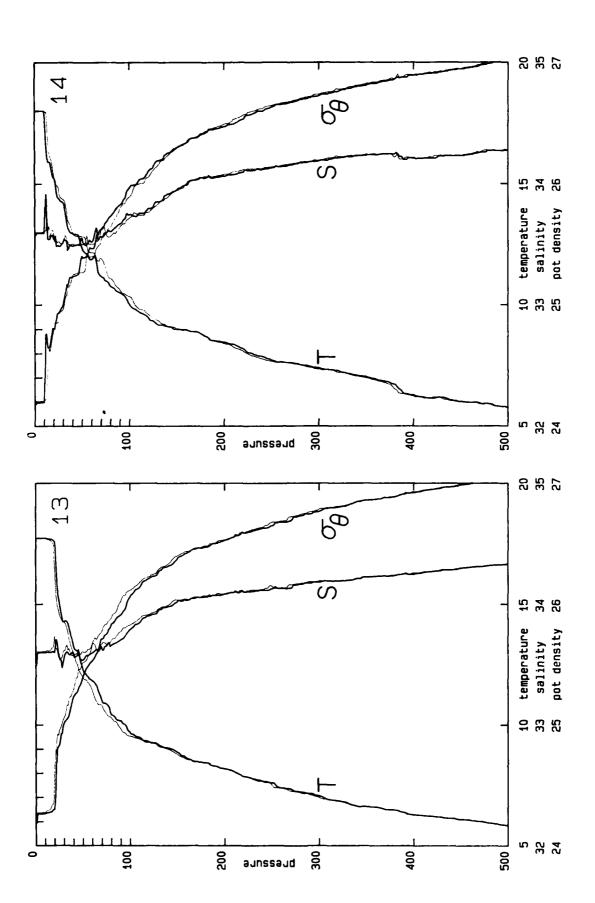
station	date:time	latitude	longitude	wind speed knots	wind direction WMO code	
11	julian: GMT 184:21: 5	32 5.0 N	119 27.5 W	20	3	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
0	17.675	33.547	17.675	24.240	0.	2
10	17.647	33.555	17.645	24.253	0.37	1
20	15.934	33.616	15.931	24.700	0.72	1
30	14.447	33.473	14.443	24.915	1.03	1
40	13.697	33.487	13.691	25.082	1.32	1
50	13.101	33.603	13.094	25.293	1.61	1
60	12.580	33.551	12.572	25.355	1.87	1
70	11.493	33.615	11.484	25.610	2.12	1 1
80	10.883	33.652	10.873	25.749	2.36	1
90	10.134	33.737	10.124	25.945	2.57 2.77	1
100	9.727	33.792	9.716	26.057	3.23	1
125	9.065	33.991	9.051	26.320 26.425	3.66	1
150	8.466	34.005	8.450 8.135	26.513	4.05	1
175	8.153	34.056	7.751	26.628	4.42	ī
200 225	7.771 7.507	34.131 34.185	7.485	26.709	4.78	ī
2 5 0	7.265	34.182	7.241	26.741	5.12	1
300	6.991	34.225	6.963	26.814	5.77	1
400	6.283	34.294	6.247	26.963	6.97	1
500	5.908	34.320	5.864	27.033	8.10	4
station	date: time	latitude	longitude	wind speed	wind direction	
	julian: GMT			knots	WMO code	
12	184:23:45	31 43.8 N	119 24.4 W	24	2	<del></del>
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	18.374	33.640	18.374	24.140	0.	2
10	18.358	33.641	18.356	24.145	0.38	1
20	17.996	33.713	17.993	24.289	0.76 1.09	1 1
30	15.661	33.667	15.656	24.800	1.38	i
40	13.000	33.616 33.596	12.995 11.655	25.323 25.564	1.63	ī
50	11.661 10.566	33.717	10.559	25.855	1.86	ī
60 70	10.269	33.757	10.261	25.937	2.07	ī
80	10.125	33.740	10.116	25.949	2.28	1
90	9.852	33.776	9.842	26.023	2.48	1
100	9.548	33.770	9.537	26.127	2.68	1
125	9.178	33.921	9.164	26.247	3.14	1
150	8.855	34.000	8.839	26.361	3.57	1
175	8.641	34.042	8,623	26.427	3.99	1
200	8.350	34.104	8.329	26.521	4.39	1
225	8.077	34.155	8.054	26.602	4.77	1
250	7.764	34.164	7.739	26.656	5.13	1
300	7.274	34.176	7.245	26.736	5.83	1
400	6.447	34.240	6.411	26.899	7.11	1
500	5.871	34.306	5.828	27.026	8.27	4



FRONTS I

station	date: time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
13	185: 1:57	31 27.4 N	119 20.2 ₩	17	36	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
0	17.723	33.497	17.723	24.190	0.	2
10	17.726	33.600	17.724	24.268	0.37	1
20	17.572	33.595	17.569	24.302	0.73	1
30	14.270	33.556	14.266	25.016	1.05	1
40	13.263	33.577	13.257	25.240	1.33	1
50	12.225	33.535	12.218	25.411	1.60	1
60	11.816	33.598	11.808	25.537	1.85	1
70	10.967	33.625	10.959	25.713	2.09	1
80	10.414	33.656	10.405	25.834	2.32	1 1 1 1
90	10.160	33.706	10.150	25.917	2.53	1
100	9.644	33.789	9.633	26.068	2.74	
125	9.246	33.917	9.232	26.233	3.20	1 1
150	8.852	34.029	8.836	26.384	3.64	1
175	8.451	34.056	8.433	26.468	4.05	1
200	8.166	34.085	8.146	26.534	4.44	1
225	7.809	34.103	7.787	26.601	4.81	1 1
250	7.593	34.130	7.569	26.654	5.18	1
300	7.029	34.183	7.001	26.775	5.86	1 1
400	6.271	34.252	6.235	26.932	7.11	1
500	5.818	34.330	5.775	27.052	8.24	4

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
14	185: 4: 9	31 9.9 N	119 17.4 W	18	2	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
0	17.994	33.576	17.994	24.184	0.	2
10	18.002	33.594	18.000	24.197	0.37	1
20	15.226	33.546	15.223	24.803	0.70	1
30	14.215	33.522	14.211	25.002	1.01	1
40	12.945	33.489	12.940	25.235	1.29	1
50	12.330	33.550	12.323	25.402	1.56	1
60	11.876	33.521	11.868	25.466	1.81	1
70	11.171	33.567	11.162	25.631	2.06	1
80	10.755	33.605	10.745	25.735	2.29	1
90	10.497	33.672	10.486	25.832	2.52	1
100	10.006	33.740	9.995	25.969	2.73	1
125	9.320	33.819	9.306	26.145	3.22	1
150	8.998	33.956	8.982	26.304	3.68	1
175	8.804	34.052	8.785	26.410	4.10	1
200	8.450	34.062	8.429	26.473	4.51	1
225	8.023	34.106	8.000	26.572	4.90	1
250	7.708	34.130	7.683	26.637	5.27	1
300	7.366	34.192	7.337	26.735	5.97	1
400	6.241	34.206	6.205	26.899	7.25	1
500	5.745	34.273	5.702	27.016	8.42	4

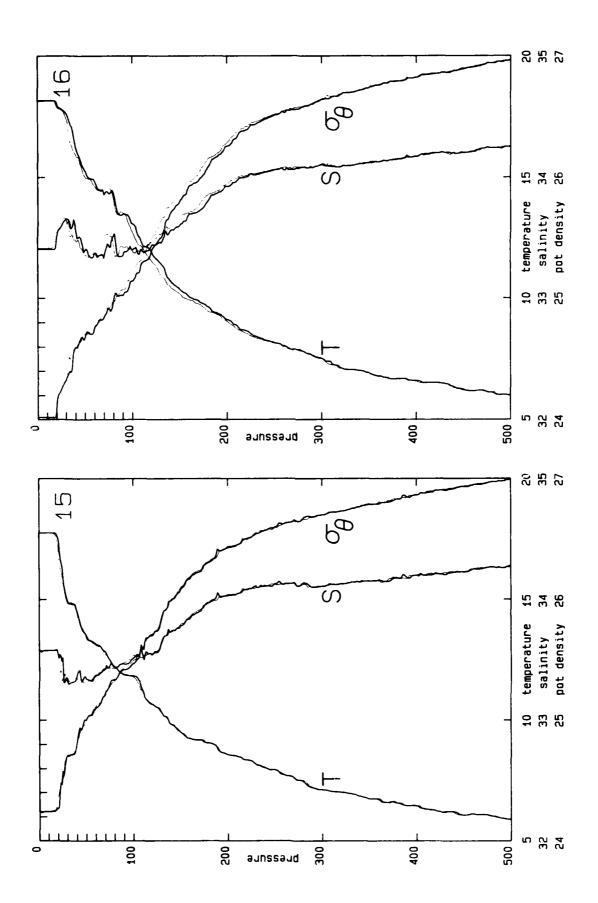


MANAGERI SESESES ROMANA SESESES RECESSOR

TH!	NET		D T7	~
EV	N P.B	mu.	K 1 /.	LIN

FRONTS I

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
15	185: 6:44	30 52.3 N	119 13.4 W	11	1	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
0	17.758	33.579	17.758	24.244	0.	2
10	17.762	33.578	17.760	24.243	0.37	1
20	17.562	33.543	17.559	24.264	0.74	1
30	14.917	33.344	14.913	24.715	1.08	1
40	14.520	33.377	14.514	24.826	1.40	1
50	13.494	33.335	13.487	25.006	1.71	1
60	13.139	33.372	13.131	25.106	2.00	1
70	12.816	33.434	12.807	25.219	2.28	1
80	12.198	33.430	12.188	25.335	2.55	1
90	11.882	33.461	11.870	25.419	2.81	1
100	11.826	33.519	11.813	25.474	3.07	1
125	10.522	33.562	10.507	25.743	3.67	1
150	9.470	33.780	9.453	26.090	4.19	1
175	9.066	33.954	9.047	26.292	4.65	1
200	8.550	34.032	8.529	26.434	5.07	1
225	8.285	34.095	8.262	26.524	5.47	1
250	7.918	34.130	7.893	26.607	5.85	1
300	7.105	34.108	7.077	26.706	6.56	1
400	6.421	34.202	6.385	26.873	7.88	1
500	5.837	34.278	5.794	27.008	9.06	1
	5.837		·			1
station		34.278	5.794 longitude	27.008 wind speed knots	9.06  wind direction  wwo code	1
	5.837		·	wind speed	wind direction	1
station	5.837  date:time julian: GMT	latitude	longitude 119 28.9 W	wind speed knots	wind direction WMO code 2 geopotential	flag
station 16	date:time julian: GMT 185:10: 2	latitude 30 30.3 N	longitude 119 28.9 W	wind speed knots 14	wind direction WMO code 2	
station 16 depth (m)	date:time julian: GMT 185:10: 2 temperature (degree C) 18.134	latitude 30 30.3 N salinity 33.406	longitude 119 28.9 W  potential temperature	wind speed knots 14 sigma-theta	wind direction WMO code 2 geopotential anomaly	
station 16 depth (m) 0 10	date:time julian: GMT 185:10: 2 temperature (degree C) 18.134 18.145	1atitude 30 30.3 N salinity 33.406 33.405	longitude 119 28.9 W  potential temperature (degree C)  18.134 18.143	wind speed knots 14 sigma-theta (kg/m <sup>3</sup> ) 24.020 24.017	wind direction  WMO code  2  geopotential  anomaly  (m/s)  0.  0.39	f1ag
16 depth (m) 0 10 20	date:time julian: GMT 185:10: 2 temperature (degree C) 18.134 18.145 18.061	1atitude 30 30.3 N salinity 33.406 33.405 33.469	longitude 119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058	wind speed knots 14 sigma-theta (kg/m <sup>3</sup> ) 24.020 24.017 24.087	wind direction  WMO code  2  geopotential  anomaly  (m/s) <sup>2</sup> 0.  0.39  0.78	f1ag  2 1 1
0 10 20 30	date:time julian: GMT 185:10: 2 temperature (degree C) 18.134 18.145 18.061 17.624	1atitude 30 30.3 N salinity 33.406 33.405 33.469 33.655	longitude 119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619	wind speed knots 14 sigma-theta (kg/m <sup>3</sup> ) 24.020 24.017 24.087 24.336	wind direction  WMO code  2  geopotential  anomaly  (m/s)  0.  0.39  0.78  1.15	f1ag  2 1 1 1
0 10 20 30 40	date:time julian: GMT 185:10: 2 temperature (degree C) 18.134 18.145 18.061 17.624 16.222	30 30.3 N salinity  33.406 33.405 33.469 33.655 33.570	longitude 119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216	wind speed knots 14 sigma-theta (kg/m <sup>3</sup> ) 24.020 24.017 24.087 24.336 24.600	wind direction  WMO code  2  geopotential  anomaly  (m/s) <sup>2</sup> 0.  0.39  0.78  1.15  1.50	flag  2 1 1 1
0 10 20 30 40 50	date:time julian: GMT 185:10: 2 temperature (degree C) 18.134 18.145 18.061 17.624 16.222 15.260	30 30.3 N salinity  33.406 33.405 33.469 33.655 33.570 33.396	longitude 119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216 15.252	wind speed knots 14 sigma-theta (kg/m <sup>3</sup> ) 24.020 24.017 24.087 24.336 24.600 24.681	wind direction  WMO code  2  geopotential  anomaly  (m/s) <sup>2</sup> 0.  0.39  0.78  1.15  1.50  1.83	f1ag  2 1 1 1 1
0 10 20 30 40 50 60	date:time julian: GMT 185:10: 2 temperature (degree C) 18.134 18.145 18.061 17.624 16.222 15.260 14.842	30 30.3 N salinity  33.406 33.405 33.469 33.655 33.570 33.396 33.383	longitude  119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216 15.252 14.833	wind speed knots 14 sigma-theta (kg/m <sup>3</sup> ) 24.020 24.017 24.087 24.336 24.600 24.681 24.762	wind direction  WMO code  2  geopotential  anomaly  (m/s) <sup>2</sup> 0.  0.39  0.78  1.15  1.50  1.83  2.16	flag  2 1 1 1 1 1
0 10 20 30 40 50 60 70	date:time julian: GMT 185:10: 2 temperature (degree C) 18.134 18.145 18.061 17.624 16.222 15.260 14.842 14.258	30 30.3 N salinity  33.406 33.405 33.469 33.655 33.570 33.396 33.383 33.348	longitude  119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216 15.252 14.833 14.248	wind speed knots 14 sigma-theta (kg/m <sup>3</sup> ) 24.020 24.017 24.087 24.336 24.600 24.681 24.762 24.860	wind direction  wMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.39 0.78 1.15 1.50 1.83 2.16 2.47	flag  2 1 1 1 1 1
0 10 20 30 40 50 60 70 80	date:time julian: GMT 185:10: 2 temperature (degree C) 18.134 18.145 18.061 17.624 16.222 15.260 14.842 14.258 14.304	30 30.3 N  salinity  33.406 33.405 33.469 33.655 33.570 33.396 33.383 33.348 33.523	longitude  119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216 15.252 14.833 14.248 14.292	wind speed knots 14 sigma-theta (kg/m <sup>3</sup> ) 24.020 24.017 24.087 24.336 24.600 24.681 24.762 24.860 24.985	wind direction  wMO code  2  geopotential  anomaly  (m/s) <sup>2</sup> 0.  0.39  0.78  1.15  1.50  1.83  2.16  2.47  2.78	flag  2 1 1 1 1 1 1 1
0 10 20 30 40 50 60 70 80 90	date:time julian: GMT 185:10: 2 temperature (degree C) 18.134 18.145 18.061 17.624 16.222 15.260 14.842 14.258 14.304 13.487	33.406 33.405 33.469 33.469 33.570 33.396 33.383 33.348 33.523 33.361	longitude  119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216 15.252 14.833 14.248 14.292 13.474	wind speed knots 14 sigma-theta (kg/m <sup>3</sup> ) 24.020 24.017 24.087 24.336 24.600 24.681 24.762 24.860 24.985 25.029	wind direction wMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.39 0.78 1.15 1.50 1.83 2.16 2.47 2.78 3.08	flag  2 1 1 1 1 1 1 1
0 10 20 30 40 50 60 70 80 90 100	date:time julian: GMT 185:10: 2  temperature (degree C)  18.134 18.145 18.061 17.624 16.222 15.260 14.842 14.258 14.304 13.487 13.067	33.406 33.405 33.465 33.469 33.570 33.396 33.383 33.348 33.523 33.361 33.395	longitude  119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216 15.252 14.833 14.248 14.292 13.474 13.053	wind speed knots 14 sigma-theta (kg/m <sup>3</sup> ) 24.020 24.017 24.087 24.336 24.600 24.681 24.762 24.860 24.985 25.029 25.140	wind direction wMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.39 0.78 1.15 1.50 1.83 2.16 2.47 2.78 3.08 3.37	flag  2 1 1 1 1 1 1 1 1
0 10 20 30 40 50 60 70 80 90 100 125	date:time julian: GMT 185:10: 2  temperature (degree C)  18.134 18.145 18.061 17.624 16.222 15.260 14.842 14.258 14.304 13.487 13.067 11.629	33.406 33.405 33.405 33.469 33.570 33.396 33.396 33.383 33.348 33.523 33.361 33.395 33.444	longitude  119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216 15.252 14.833 14.248 14.292 13.474 13.053 11.613	wind speed knots 14 sigms-theta (kg/m <sup>3</sup> ) 24.020 24.017 24.087 24.336 24.600 24.681 24.762 24.860 24.985 25.029 25.140 25.453	wind direction wMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.39 0.78 1.15 1.50 1.83 2.16 2.47 2.78 3.08 3.37 4.05	flag  2 1 1 1 1 1 1 1 1 1
0 10 20 30 40 50 60 70 80 90 100 125 150	date:time julian: GMT 185:10: 2  temperature (degree C)  18.134 18.145 18.061 17.624 16.222 15.260 14.842 14.258 14.304 13.487 13.067 11.629 10.312	33.406 33.405 33.405 33.469 33.570 33.396 33.396 33.396 33.396 33.393 33.348 33.523 33.361 33.395 33.444	longitude  119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216 15.252 14.833 14.248 14.292 13.474 13.053 11.613 10.294	wind speed knots 14 sigms-theta (kg/m <sup>3</sup> ) 24.020 24.017 24.087 24.336 24.600 24.681 24.762 24.860 24.985 25.029 25.140 25.453 25.817	wind direction wMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.39 0.78 1.15 1.50 1.83 2.16 2.47 2.78 3.08 3.37 4.05 4.64	flag  2 1 1 1 1 1 1 1 1 1 1
0 10 20 30 40 50 60 70 80 90 100 125 150 175	date:time julian: GMT 185:10: 2  temperature (degree C)  18.134 18.145 18.061 17.624 16.222 15.260 14.842 14.258 14.304 13.487 13.067 11.629 10.312 9.752	33.406 33.405 33.405 33.469 33.655 33.570 33.396 33.383 33.348 33.523 33.361 33.395 33.444 33.610 33.758	longitude  119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216 15.252 14.833 14.248 14.292 13.474 13.053 11.613 10.294 9.732	wind speed knots 14 sigms-theta (kg/m <sup>3</sup> ) 24.020 24.017 24.087 24.336 24.600 24.681 24.762 24.860 24.985 25.029 25.140 25.453 25.817 26.027	wind direction wMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.39 0.78 1.15 1.50 1.83 2.16 2.47 2.78 3.08 3.37 4.05 4.64 5.17	flag  2 1 1 1 1 1 1 1 1 1 1 1
0 10 20 30 40 50 60 70 80 90 100 125 150 175 200	date:time julian: GMT 185:10: 2  temperature (degree C)  18.134 18.145 18.061 17.624 16.222 15.260 14.842 14.258 14.304 13.487 13.067 11.629 10.312 9.752 9.110	latitude 30 30.3 N salinity  33.406 33.405 33.469 33.655 33.570 33.396 33.348 33.523 33.361 33.395 33.444 33.610 33.758 33.923	longitude  119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216 15.252 14.833 14.248 14.292 13.474 13.053 11.613 10.294 9.732 9.088	wind speed knots 14 sigma-theta (kg/m <sup>3</sup> ) 24.020 24.017 24.087 24.336 24.600 24.681 24.762 24.860 24.985 25.029 25.140 25.453 25.817 26.027 26.261	wind direction  wMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.39 0.78 1.15 1.50 1.83 2.16 2.47 2.78 3.08 3.37 4.05 4.64 5.17 5.64	flag  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
16 depth (m) 0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225	date:time julian: GMT 185:10: 2  temperature (degree C)  18.134 18.145 18.061 17.624 16.222 15.260 14.842 14.258 14.304 13.487 13.067 11.629 10.312 9.752 9.110 8.506	latitude 30 30.3 N salinity  33.406 33.405 33.469 33.655 33.570 33.396 33.383 33.348 33.523 33.361 33.395 33.444 33.610 33.758 33.923 34.024	longitude  119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216 15.252 14.833 14.248 14.292 13.474 13.053 11.613 10.294 9.732 9.088 8.482	wind speed knots 14  sigma-theta (kg/m <sup>3</sup> )  24.020 24.017 24.087 24.336 24.600 24.681 24.762 24.860 24.985 25.029 25.140 25.453 25.817 26.027 26.261 26.435	wind direction  wMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.39 0.78 1.15 1.50 1.83 2.16 2.47 2.78 3.08 3.37 4.05 4.64 5.17 5.64 6.07	flag  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
16 depth (m) 0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250	date:time julian: GMT 185:10: 2  temperature (degree C)  18.134 18.145 18.061 17.624 16.222 15.260 14.842 14.258 14.304 13.487 13.067 11.629 10.312 9.752 9.110 8.506 8.149	latitude 30 30.3 N salinity  33.406 33.405 33.469 33.655 33.570 33.396 33.383 33.348 33.523 33.361 33.395 33.444 33.610 33.758 33.923 34.024 34.061	longitude  119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216 15.252 14.833 14.248 14.292 13.474 13.053 11.613 10.294 9.732 9.088 8.482 8.123	wind speed knots 14  sigma-theta (kg/m <sup>3</sup> )  24.020 24.017 24.087 24.336 24.600 24.681 24.762 24.860 24.985 25.029 25.140 25.453 25.817 26.027 26.261 26.435 26.518	wind direction  wMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.39 0.78 1.15 1.50 1.83 2.16 2.47 2.78 3.08 3.37 4.05 4.64 5.17 5.64 6.07 6.47	flag  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
16 depth (m) 0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225	date:time julian: GMT 185:10: 2  temperature (degree C)  18.134 18.145 18.061 17.624 16.222 15.260 14.842 14.258 14.304 13.487 13.067 11.629 10.312 9.752 9.110 8.506	latitude 30 30.3 N salinity  33.406 33.405 33.469 33.655 33.570 33.396 33.383 33.348 33.523 33.361 33.395 33.444 33.610 33.758 33.923 34.024	longitude  119 28.9 W  potential temperature (degree C)  18.134 18.143 18.058 17.619 16.216 15.252 14.833 14.248 14.292 13.474 13.053 11.613 10.294 9.732 9.088 8.482	wind speed knots 14  sigma-theta (kg/m <sup>3</sup> )  24.020 24.017 24.087 24.336 24.600 24.681 24.762 24.860 24.985 25.029 25.140 25.453 25.817 26.027 26.261 26.435	wind direction  wMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.39 0.78 1.15 1.50 1.83 2.16 2.47 2.78 3.08 3.37 4.05 4.64 5.17 5.64 6.07	flag  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

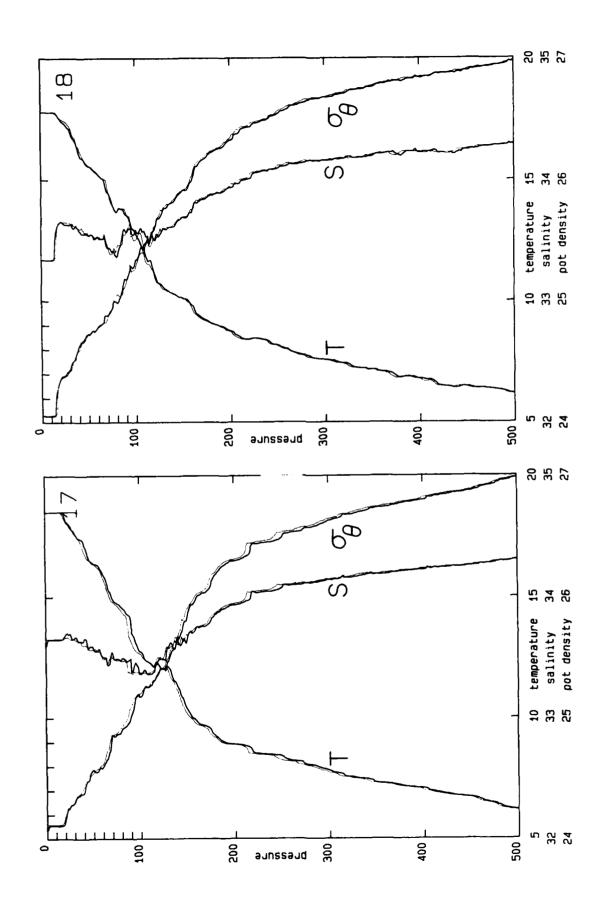


DV	NEW	HUB	IZON

FRONTS I

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
17	185:13:12	30 42.5 N	119 50.7 W	16	2	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	18.492	33.600	18.492	24.080	0.	2
10	18.520	33.648	18.518	24.110	0.38	1
20	18.364	33.676	18.361	24.171	0.76	1
30	17.733	33.657	17.728	24.311	1.13	1
40	17.303	33.629	17.296	24.393	1.49	1
50	16.382	33.583	16.374	24.573	1.84	1
60	16.013	33.507	16.004	24.599	2.18	1
70	14.945	33.547	14.935	24.867	2.50	1
80	14.568	33.486	14.556	24.901	2.81	1
90	13.860	33.433	13.847	25.009	3.12	1
100	12.740	33.366	12.727	25.182	3.40	1
125	12.023	33.485	12.007	25.412	4.08	
150	10.308	33.671	10.290	25.865	4.68	1
175	9.451	33.820	9.432	26.125 26.303	5.19 5.64	1 1
200	8.897	33.934	8.876		6.07	1
225	8.508	34.034	8.484	26.442	6.47	1
250	8.370	34.082	8.344	26.501	7.23	1
300	7.791 7.048	34.139	7.761	26.633 26.805	8.60	1
400 500	6.144	34.222 34.306	7.010 6.100	26.992	9.83	4
	V.211	541555	0.200		• • • • • • • • • • • • • • • • • • • •	•
station	date: time	latitude	longitude	wind speed	wind direction	
10	julian: GMT	11 1 5 N	110 66 0 8	knots	WMO code 1	
18	185:16: 8	31 1.5 N	119 55.9 W	19 	<u> </u>	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	17.783	33.339	17.783	24.054	0.	2
10	17.784	33.339	17.782	24.054	0.39	1
20	17.510	33.656	17.507	24.363	0.76	1
30	17.086	33.629	17.081	24.444	1.12	1
40	16.089	33.581	16.083	24.638	1.46	1
50	15.556	33.539	15.548	24.726	1.79	1
60	15.210	33.526	15.201	24.793	2.11	1
70	14.468	33.435	14.458	24.883	2.42	1
80	13.677	33.360	13.666	24.989	2.72	1
90	13.521	33.567	13.508	25.182	3.01	1
100	12.756	33.581	12.743	25.345	3.29	1
125	10.714	33.547	10.699	25.698	3.91	1
150	10.084	33.688	10.067	25.917	4.46	1
175	9.177	33.860	9.158	26.201	4.96	1
200	8.742	33.934	8.721	26.328	5.41	1
225	8.457	34.056	8.434	26.467	5.82	1
250	8.135	34.095	8.109	26.547	6.22	1
300	7.556	34.155	7.527	26.679	6.95	1
400	6.782	34.222	6.745	26.841	8.28	1
500	6.127	34.295	6.083	26.985	9.49	1

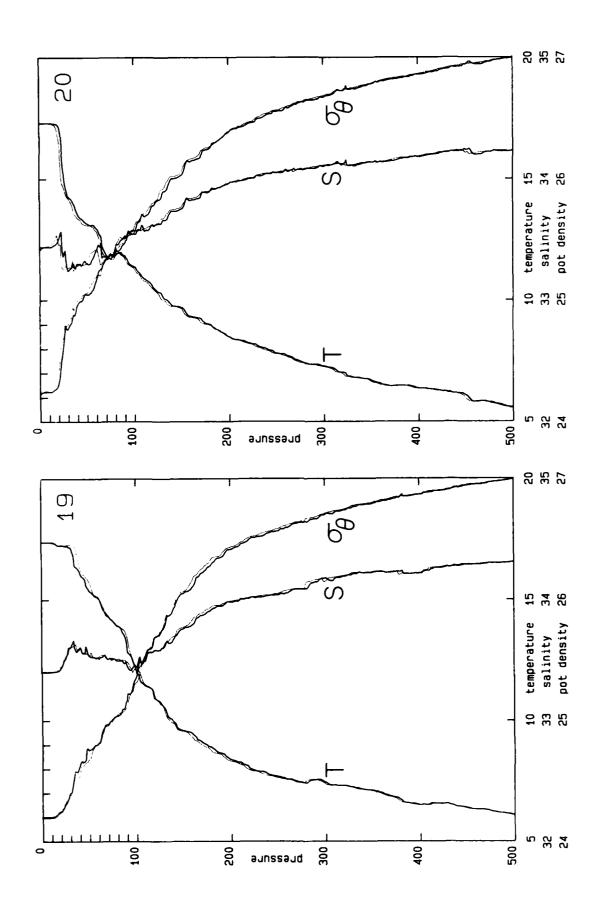
BANKAN DIE ERICHARD IN NOON BIJAARI KANAARI KANAARI



FRONTS I

station	date: time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
19	185:23:41	31 18.5 N	119 58.0 W	16	1	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	17.383	33.403	17.383	24,199	0.	2
10	17.380	33.403	17.378	24.200	0.37	1
20	17.251	33.429	17.248	24.251	0.75	1
30	17.167	33.605	17.162	24.406	1.11	1
40	16.143	33.605	16.137	24.645	1.45	1
50	15.368	33.536	15.360	24.765	1.78	1
60	15.051	33.524	15.042	24.826	2,09	1
70	14.301	33.508	14.291	24.974	2.40	ī
80	13.917	33.494	13.906	25.044	2.70	ī
90	13.067	33.443	13.055	25.177	2.99	ī
100	12.026	33.440	12.013	25.376	3.26	ī
125	10.747	33.578	10.732	25.716	3.87	i
150	9.581	33.765	9.564	26.061	4.40	i
175	8.933	33.900	8.914	26.271	4.87	1
200	8.361	33.979	8.340	26.421	5.30	1
225	7.908	34.013	7.886	26.516	5.70	1
250	7.661					1
300	* * * *	34.038	7.636	26.572	6.08	1
	7.395	34.175	7.366	26.718 26.872	6.80	
400 500	6.513 6.082	34.216 34.306	6.477 6.038	27.000	8.11 9.29	1 1
station	date:time	latitude	longitude	wind speed	wind direction	<del></del>
	julian: GMT	2002000		knots	WMO code	
20	186: 2:21	31 37.4 N	120 2.8 W	11	1	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
			temperature	44 4 31	anomaly	
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	17.301	33.418	17.301	24.230	0.	2
10	17.297	33.440	17.295	24.248	0.37	1
20	17.184	33.503	17.181	24.324	0.74	1
30	14.287	33.236	14.283	24.766	1.07	1
40	13.543	33.303	13.537	24.971	1.38	1
50	13.159	33.302	13.152	25.048	1.68	1
60	12.954	33.421	12.946	25.181	1.97	1
70	11.859	33.355	11.850	25.340	2.24	1
80	11.897	33.445	11.887	25.403	2.50	1
90	11.807	33.524	11.796	25.482	2.76	1
100	11.363	33.545	11.351	25.580	3.01	1
125	10.326	33.627	10.311	25.827	3.58	1
150	9.686	33.756	9.669	26.036	4.10	1
175	9.035	33.889	9.016	26.246	4.57	1
200	8.467	33.967	8.446	26.396	5.01	1
225	8.181	34.005	8.158	26.469	5.42	1
250	7.796	34.050	7.771	26.562	5.81	1
300	7.266	34.107	7.237	26.683	6.54	1
400	6.353	34.177	6.317	26.862	7.86	1
500	5.553	34.227	5.511	27.002	9.03	1

■ 関係のののののでは、 100mmののでは、 100mmのでは、 100mmのでは、100mmのでは

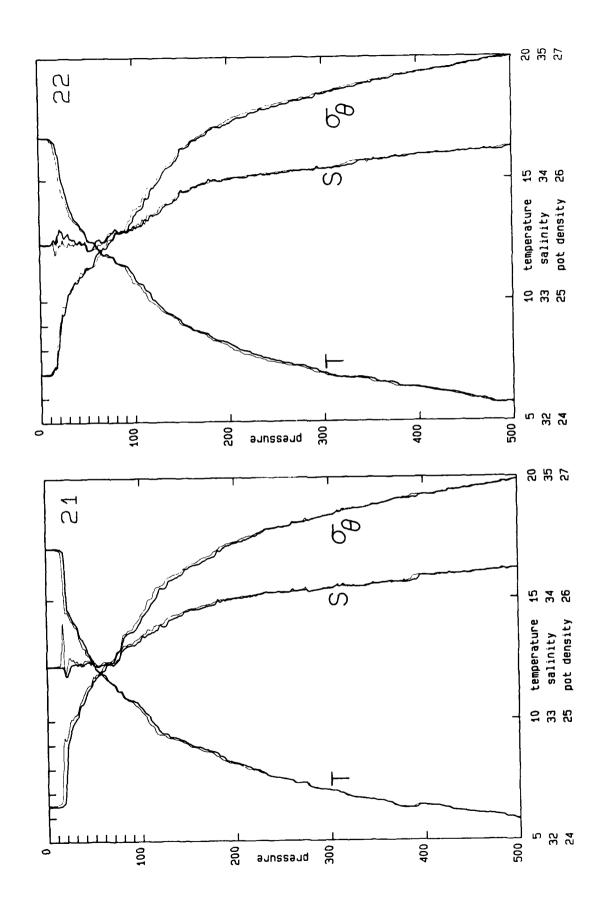


FRONTS I

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
21	186: 4:39	31 53.6 N	120 6.7 W	11	0	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
0	17.130	33.450	17.130	24.295	0.	2
10	17.135	33.449	17.133	24.294	0.36	1
20	15.890	33.379	15.887	24.527	0.73	1
30	14.019	33.473	14.015	25.005	1.03	1
40	13.157	33.469	13.152	25.177	1.32	1
50	12.380	33.472	12.373	25.332	1.59	1
60	11.909	33.466	11.901	25.417	1.85	1
70	11.538	33.466	11.529	25.486	2.11	1
80	11.117	33.579	11.107	25.650	2.35	1
90	10.840	33.627	10.829	25.737	2.58	1
100	10.529	33.675	10.517	25.829	2.81	1
125	9.444	33.776	9.430	26.091	3.32	1
150	9.020	33.901	9.004	26.257	3.79	1
175	8.687	33.949	8.669	26.348	4.22	1
200	8.200	34.006	8.180	26.467	4.64	1
225	7.855	34.036	7.833	26.542	5.03	1
250	7.552	34.048	7.528	26.595	5.40	ī
300	7.049	34.083	7.021	26.694	6.12	1
400	6.441	34.185	6.405	26.857	7.44	ī
500	5.787	34.243	5.744	26.987	8.64	4

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
22	186: 8: 8	32 11.7 N	120 9.9 W	5	3	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
0	16.746	33.468	16.746	24.399	0.	2
10	16.747	33.468	16.745	24.399	0.35	1
20	16.030	33.559	16.027	24.634	0.70	1
30	14.047	33.561	14.043	25.067	1.01	1
40	13.279	33.472	13.273	25.155	1.29	1
50	12.551	33.443	12.544	25.277	1.57	1
60	12.217	33.500	12.209	25.385	1.84	1
70	11.952	33.499	11.943	25.435	2.10	1
80	11.671	33.602	11.661	25.567	2.35	1
90	11.475	33.572	11.464	25.580	2.59	1
100	10.965	33.597	10.953	25.692	2.83	1
125	9.850	33,717	9.836	25.978	3.38	1
1 50	9.052	33.910	9.036	26.259	3.86	1
175	8.648	33.960	8.630	26.362	4.30	1
200	8.193	33.997	8.173	26.461	4.71	1
225	7.764	34.026	7.742	26.547	5.10	1
250	7.497	34.039	7.473	26.596	5.48	1
300	6.986	34.078	6.958	26.698	6.19	1
400	6.350	34.197	6.314	26.878	7.50	1
500	5.715	34.251	5.672	27.002	8.68	1

をシンクソウンに通過などなななない。 「他のののののでは、「他ののののでは、「他ののののでは、「他ののののでは、「他ののでなる」というという。 「他ののでは、「他ののでは、「他ののでは、「他ののでは、「他のではないない」というという。

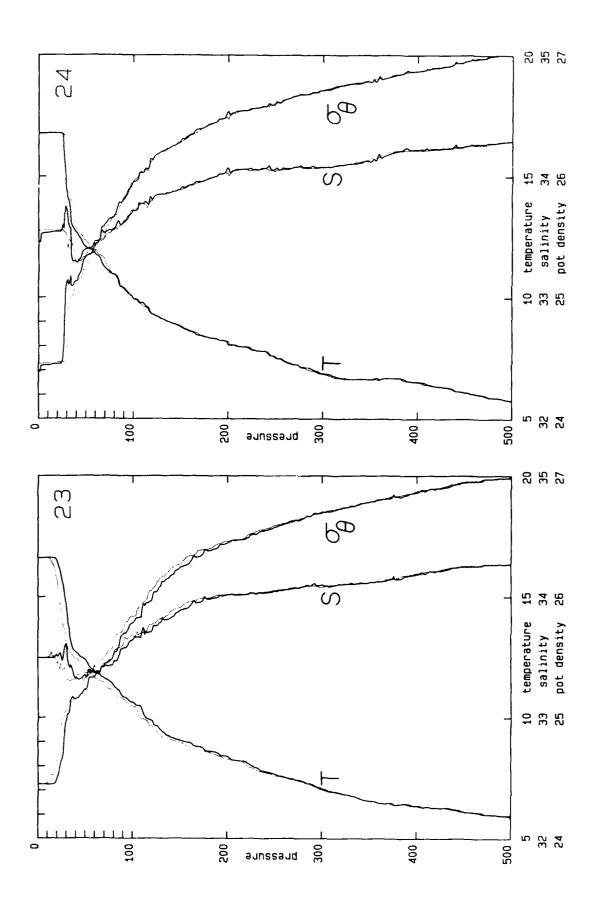


アルルの重要ななななななな。 これのためのの意識などのないのは重要などのからあるののの語句をはなったが、 大力ののものもなると言うななななない。

RV NEW HORIZON	ZON	Ι	R	ĦΟ		NEW	W	
----------------	-----	---	---	----	--	-----	---	--

FRONTS I

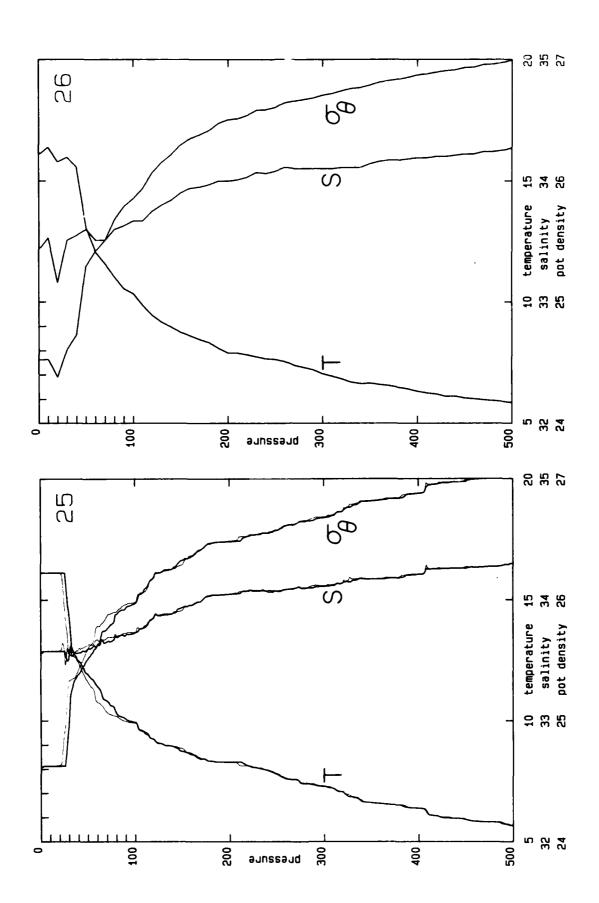
RV NEW HO	ORIZON	FRONT	5 1			
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
23	186:10:30	32 30.0 N	120 13.9 W	2	9	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	16.607	33.495	16.607	24.452	0.	2
10	16.620	33.493	16.618	24.448	0.35	1
20	16.484	33.521	16.481	24.501	0.70	1
30	14.623	33.608	14.619	24.982	1.03	1
40	12.700	33.322	12.695	25.154	1.31	1
50	12.385	33.346	12.378	25.233	1.59	1
60	11.903	33.365	11.895	25.340	1.86	1
70	11.623	33.418	11.614	25.433	2.12	1
80	11.286	33.462	11.276	25.529	2.37	1
90	10.852	33.569	10.841	25.690	2.62	1
100	10.628	33.641	10.616	25.786	2.84	1
125	9.650	33.756	9,636	26.042	3.37	1
150	9.039	33.884	9.023	26.241	3.84	1
175	8.657	34.002	8.639	26.394	4.28	1
200	8.382	34.017	8.361	26,448	4.69	1
225	7.994	34.028	7.971	26.515	5.09	1
250	7.636	34.045	7.611	26.581	5.48	1
300	7.033	34.085	7.005	26.698	6.20	1
400	6.362 5.908	34.189 34.273	6.326 5.864	26.870 26.995	7.51 8.69	1 1
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
24	186:12:50	32 47.0 N	120 16.8 W	5	16	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	$(kg/m^3)$	$(m/s)^2$	
	16 76	33.458	16.765	24.387	0.	2
0	16.765	33.534	16.777	24.443	0.35	1
10 20	16.779 16.763	33.543	16.760	24.453	0.70	1
30	14.364	33.725	14.360	25.127	1.03	1
40	12.674	33.286	12.669	25.131	1.32	1
50	12.052	33.396	12.046	25.335	1.59	1
50 50	11.762	33.464	11.754	25.443	1.85	1
70	11.195	33,539	11.186	25.605	2.10	1
80	10.937	33.561	10.927	25,668	2.34	. 1
90	10.353	33.626	10.342	25.821	2.56	1
100	9.942	33.724	9.931	25.968	2.78	1
125	9.212	33.846	9.198	26.183	3.27	1
150	8.771	33.903	8.755	26.298	3.72	1
175	8.365	33.972	8.347	26.415	4.15	1
200	8.021	34.040	8.001	26.520	4.55	1
225	7.824	34.053	7.802	26.560	4.93	1
250	7.494	34.075	7.470	26.625	5.31	1
300	6.850	34.076	6,822	26.715	6.02	1
400	6.520	34.221	6.484	26.875	7.32	1
500	5.729	34.294	5.686	27.034	8.48	4



からのは、「日本の人との人は、「ないのからない」。 これのことのことには、「ないのからないない。」 これのこれのことが、「これのこれのない。」 これのこれのこれを、「これのこれを、

FRONTS 1

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
25	186:15: 8	33 4.2 N	120 20.8 W	5	12	
depth	temperature	salinity	potential temperature	sigma-thota	geopotential anomaly	flag
(m)	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	16.123	33.563	16.123	24.615	0.	2
10	16.122	33.575	16.120	24.625	0.33	1
20	16.118	33.576	16.115	24.627	0.67	1
30	14.414	33.518	14.410	24.957	0.99	1
40	12.473	33.564	12.468	25.385	1.26	1
50	11.927	33.597	11.921	25.515	1.52	1
60	11.422	33.623	11,415	25.629	1.76	1
70	10.807	33.658	10.799	25.767	1.99	1
80	10.289	33.693	10.280	25.884	2.21	1
90	10.049	33.713	10.039	25.941	2.42	1
100	9.931	33.731	9.920	25.975	2.63	1
125	9.056	33.870	9.043	26.227	3.11	1
150	8.724	33,938	8.708	26.333	3.55	1
175	8.347	34.026	8.329	26.460	3.97	1
200	8.289	34.049	8.268	26.487	4.37	1
225	8.059	34.074	8.036	26.541	4.76	1
250	7.774	34.073	7.749	26.583	5.14	1
300	7.270	34.113	7.241	26.687	5.86	1
400	6.369	34.211	6.333	26.887	7.15	ī
500	5.655	34.299	5.612	27.047	8.28	1
station	date:time	latitude	longitude	wind speed	wind direction	<del></del>
26	julian: GMT 186:19: 8	33 18.4 N	120 46.4 W	knots 2	WMO code 36	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
00702			temperature	318 11018	anomaly	
(m)	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	16.127	33.430	16.127	24.512	0.	2
10	16.412	33.520	16.410	24.517	0.34	1
20	15.808	33.150	15.805	24.370	0.69	1
30	15.997	33.500	15.992	24.597	1.04	1
40	15.591	33.540	15.585	24.719	1.37	1
50	13.103	33.590	13.096	25.282	1.67	1
60	12.095	33.500	12.087	25.408	1.93	1
70	11.611	33.500	11,602	25.499	2.19	1
80	11.065	33.590	11.055	25.668	2.43	1
90	10.577	33.620	10.566	25.778	2.66	1
100	10.373	33.660	10.361	25.844	2.88	1
125	9.332	33.765	9.318	26.101	3.39	ĩ
150	8.774	33.890	8.758	26.287	3.86	ī
175	8.417	33.950	8.399	26.390	4.28	1
200	7.925	33.990	7.905	26.495	4.69	ī
225	7.811	34.040	7.789	26.551	5.08	ī
250	7.660	34.070	7.635	26.597	5.45	1
300	7.069	34.090	7.041	26.697	6.17	ī
400	6.349	34.180	6.313	26.865	7.49	ī
500	5.879	34.260	5.836	26.989	8,69	1

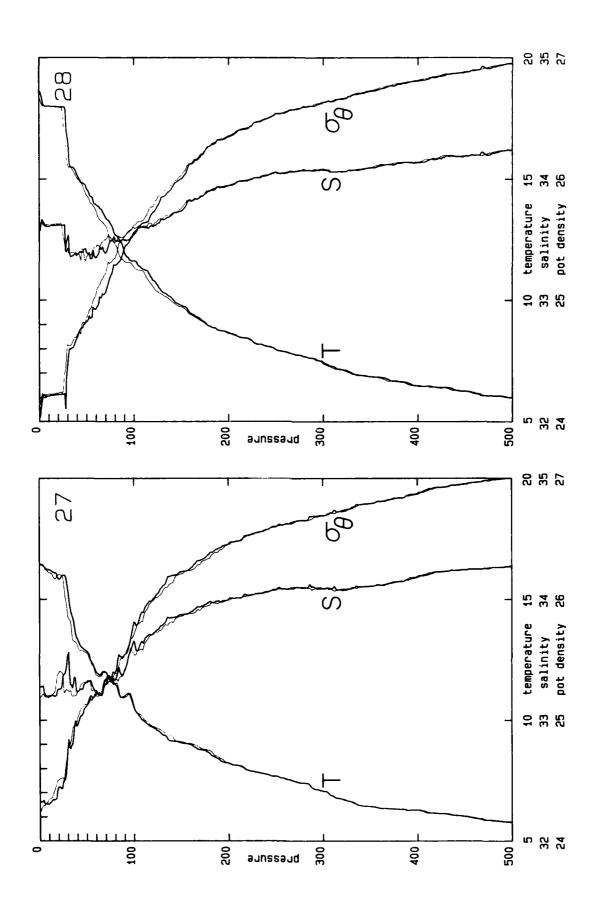


MARKATOR ACCOUNTS SOMETHING SOMETHING SOMETHING INCOME.

RV NEW HORIZON	

FRONTS I

27  depti (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250 300 400 500  stati 28  depti (m)  ((a) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	NEW HORIZON  ation date:tim julian: G 27 186:22:2	FRON	ITS I		
27  depti (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250 300 400 500  stati 28  depti (m)  ((a) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d		e latitude			
27  depti (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250 300 400 500  stati 28  depti (m)  (m)  (10 20 30 40 50 60 70 80 90 90 90 90 90 90 90 90 90 90 90 90 90		M.	longitude	wind speed knots	wind direction WMO code
(m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250 300 400 500  stati  (m)  ((m) (10 20 30 40 50 60 70 80 90 100 100 100 100 100 100 100 100 100			121 1.4 W	5	5
0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250 300 400 500	epth temperatu	re salinity	potential temperature	sigma-theta	geopotential anomaly
10 20 30 40 50 60 70 80 90 100 125 150 225 250 300 400 500 stati	(m) (degree C	)	(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>
20 30 40 50 60 70 80 90 100 125 150 225 250 300 400 500 stati	0 16.437	33.277	16.437	24.324	0.
30 40 50 60 70 80 90 100 125 150 225 250 300 400 500 stati		33.188	16.227	24.303	0.36
40 50 60 70 80 90 100 125 150 225 250 300 400 500 stati		33.259	15.830	24.448	0.72 1.07
50 60 70 80 90 100 125 150 275 250 300 400 500 stati		33.544	15.348	24.774	1.38
60 70 80 90 100 125 150 175 200 225 250 300 400 500 *****************************		33.230	13.339	24.955 25.122	1.67
70 80 90 100 125 150 175 200 225 250 300 400 500 stati 28 dept (m)		33.316 33.238	12.833 11.991	25.223	1.95
80 90 100 125 150 175 200 225 250 300 400 500 *****************************		33.335	11.972	25.302	2.22
90 100 125 150 175 200 225 250 300 400 500 stati 28 dept (m)		33.341	11.475	25.399	2.49
100 125 150 175 200 225 250 300 400 500 stati 28 dept (m)		33.421	10.987	25.549	2.74
125 150 175 200 225 250 300 400 500 stati 28 dept (m)		33.655	10.463	25.823	2.97
150 175 200 225 250 300 400 500 stati 28 dept (m)		33.748	9.544	26.051	3.50
200 225 250 300 400 500 stati 28 dept (m)	150 9.044	33.874	9.028	26.232	3.97
225 250 300 400 500 stati 28 dept (m) (i) 10 20 30 40 50 60 70 80 90	175 8.722	33.956	8.703	26.347	4.41
250 300 400 500 stati 28 dept (m) (i) 10 20 30 40 50 60 70 80 90	200 8.187	34.008	8.167	26.470	4.82
300 400 500 stati 28 dept (m) (10 20 30 40 50 60 70 80 90	225 7.865	34.037	7.843	26.541	5.21
400 500 stati 28 dept (m) (i) 10 20 34 40 50 66 70 80 90	250 7.662	34.082	7.637	26.606	5.59
500 stati 28 dept (m) (10 20 30 40 50 60 70 80 90		34.088	7.027	26.697	6.30
28 dept (m) (10 20 30 40 50 60 70 80		34.190	6.245	26.881	7.61
28 dept (m) (10 20 30 40 50 66 70 80	500 5.758	34.277	5.715	27.017	8.77
dept (m) (10 20 30 40 50 60 70 80	tation date:tim		longitude	wind speed	wind direction
(m) 10 20 30 40 50 60 70 80	julian: 6 28 187: 0:4		120 59.0 W	knots 8	WMO code 2
(m) 10 20 30 40 50 60 70 80	depth temperati	re salinity	potential	sigma-theta	geopotential
10 20 30 40 50 60 70 80			temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>
10 20 30 40 50 60 70 80				, <del>, , , , , , , , , , , , , , , , , , </del>	
20 30 40 50 60 70 80 90	0 18.587	33.576	18.587	24.038	0.
3 ( 40 50 6 ( 7 ( 80 9 (	10 17.991	33.610	17.989	24.211	0.38
40 50 60 70 80 90			17.970 16.667	24.224 24.446	0.75 1.12
50 60 70 80 90		33.505 33.377	15.149	24.689	1.45
6) 7) 8) 9)	50 14.568		14.561	24.822	1.77
7 ( 80 9(	60 13.935		13.926	24.927	2.08
80 90	70 13.366		13.356	25.094	2.38
90	80 12.679		12.668	25.287	2.66
	90 11.917		11.905	25.446	2.92
	100 11.619		11.606	25.547	3.17
	125 10.609	33.637	10.594	25.786	3.76
150	150 9.772	33.742	9.755	26.011	4.29
	175 9.056		9.037	26.241	4.77
	200 8.642		8.621	26.351	5.21
	225 8.267		8.244	26.458	5.63
	250 7.930		7.905	26.538	6.02
	300 7.404		7.375	26.642	6.77
	400 6.472 500 5.972		6.436 5.928	26.814 26.962	8.14 9.37



Constitution of the contract o

FRONTS I

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
29	187: 3: 4	32 25.9 N	120 54.2 W	9	3	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) 2	
0	18.538	33.707	18.538	24.150	0.	2
10	18.222	33.686	18.220	24.213	0.38	1
20	18.184	33.685	18.181	24.222	0.75	1
30	:.172	33.684	18.167	24.225	1.12	1
40	8.151	33.684	18.144	24.230	1.49	1
50	6.529	33.597	16.521	24.550	1.84	1
60	16.218	33.574	16,208	24.604	2.18	1
70	15.582	33.547	15.571	24.727	2.51	1
80	13.950	33.367	13.939	24.939	2.82	1
90	13.608	33.488	13.595	25.103	3.12	1
100	13.038	33.549	13.024	25.265	3.40	1
125	11.207	33.579	11.192	25.635	4.05	1
150	9.979	33.689	9.962	25.935	4.60	1
175	9.042	33.868	9,023	26,228	5.09	1
200	8.502	33.959	8.481	26.384	5.52	1
225	8.164	34.000	8.141	26.468	5.93	1
250	7.881	34.049	7.856	26.548	6.33	1
300	7.177	34.090	7.148	26,682	7.06	ī
400	6.378	34.162	6.342	26.847	8.40	ī
500	5.835	34.245	5.792	26.982	9.60	ī
station	date:time julian: GMT	latitude	longitude	wind speed	wind direction	<del></del>
30	187: 5:18	32 7.9 N	120 51.2 W	knots 8	WMO code 1	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
		·	temperature	_	anomaly	
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	16.994	33,309	16.994	24.219	0.	2
10	16.803	33.280	16.801	24.242	0.37	1
20	16.510	33.252	16.507	24.289	0.74	1
30	16.006	33.468	16.001	24.570	1.09	1
40	15.011	33.478	15.005	24.798	1.42	1
50	14.016	33.309	14.009	24.879	1.74	1
60	13.876	33.313	13.867	24.912	2.05	1
70	13.326	33.323	13.316	25.031	2.35	1
80	12.937	33.320	12.926	25.107	2.64	1
90	12.474	33.375	12.462	25.240	2.92	1
100	11.821	33.447	11.808	25.420	3.19	1
125	10.719	33.591	10.704	25.731	3.80	1
150	9.726	33.730	9.709	26.009	4.34	1

9.105

8.839

8.565

8.116

7.502

6.446

5.857

26.191

26.280

26.367

26.485

26.630 26.810

26.961

4.82

5.28

5.71

6.12

6.88

8.25

9.47

1

33.837

33.897

33.954

34.017

34.088

34.133

34.228

175

200

225

250

300 400

500

9.124

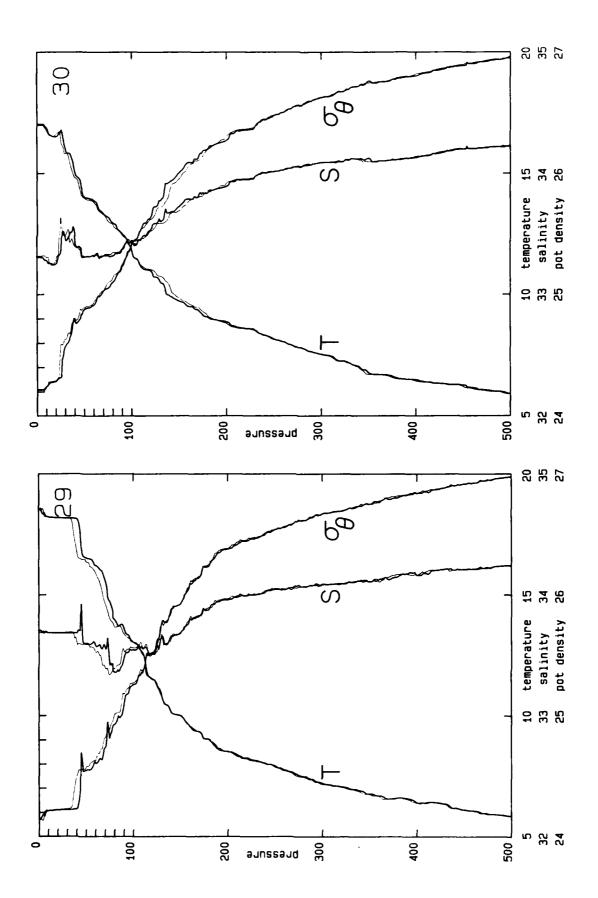
8.860

8.589

8.141

7.531 6.482

5.900



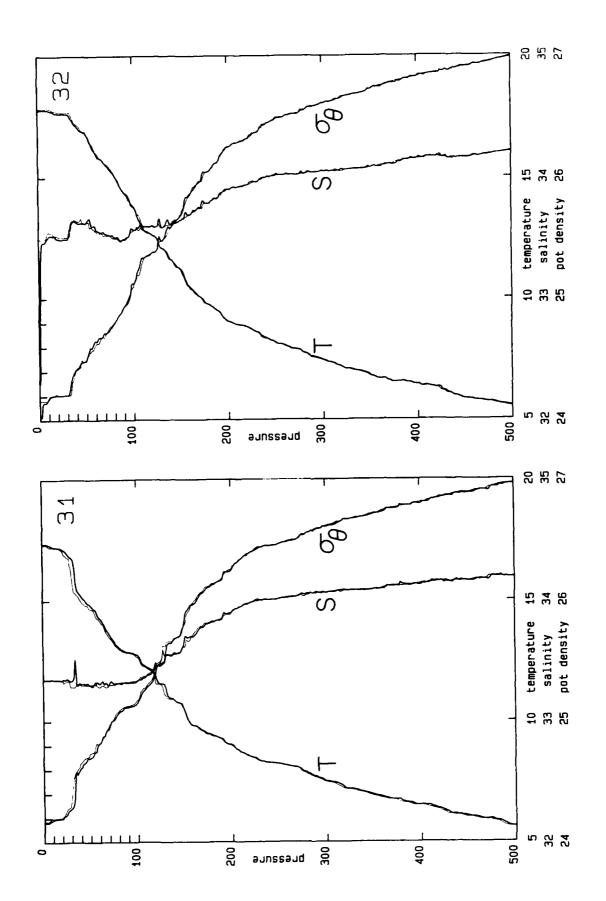
CONTROL CARRYLL CARRESTS STOTESTA, CARROLL

RV	NEW	HOR	IZON

FRONTS I

RV NEW H	ORIZON	FRON.	rs i			
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
31	187: 7:33	31 51.0 N	120 48.2 W	5	4	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
(m)	(degree C)		temperature (degree C)	$(kg/m^3)$	anomaly (m/s)2	
0	17.343	33.347	17.343	24.166	0.	2
10	17.248	33.348	17.246	24.190	0.38	1
20	17.160	33.346	17.157	24.209	0.75	1
30	16.788	33.339	16.783	24.291	1.12	1
40	15.245	33.312	15.239	24.620	1.46	1
50	14.826	33.302	14.819	24.703	1.79	1
60	14.283	33.310	14.274	24.825	2.11	1
70	13.625	33.305	13.615	24.957	2.42	1
80	13.069	33.318	13.058	25.079	2.72	1
90	12.859	33.321	12.847	25.123	3.01	1
100	12.721	33.339	12.708	25.164	3.29	1
125	11.561	33.469	11.545	25.485	3.96	1
150	10.355	33.684	10.337	25.867	4.55	1
175	9.478	33.809	9.459	26.112	5.06	1
200	8.978	33.908	8.956	26.270	5.53	1
225	8.423	34.002	8.400	26.430	5.96	1
250	8.214	34.013	8.188	26.471	6.36	1
300	7.511	34.061	7.482	26.612	7.13	1
400 500	6.525 5.613	34.136 34.189	6.489 5.571	26.807 26.965	8.52 9.74	1 1
-4-41	4.4	1.414.1				
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
32	187: 9:50	31 31.3 N	120 44.0 W	6	5	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
0	17.749	32.310	17.749	23.275	0.	2
10	17.786	33.506	17.784	24.182	0.39	1
20	17.646	33.496	17.643	24.208	0.76	1
30	17.619	33.492	17.614	24.212	1.14	1
40	17.150	33.634	17.143	24.433	1.50	1
50	16.814	33.624	16.806	24.505	1.84	1
60	16.045	33.588	16.036	24.655	2.18	1
70	15.589	33.539	15.578	24.719	2.51	1
80	15.085	33.508	15.073	24.807	2.83	1
90	14.401	33.485	14.388	24.936	3.14	1
100	13.783	33.563	13.769	25.125	3.44	1
125	12.484	33.598	12.467	25.412	4.11	1
150	11.159	33.646	11.141	25.697	4.72	1
175	9.808	33.785	9.788	26.039	5.26	1
200	9.043	33.901	9.021	26.255	5.74	1
225	8.688	33.967	8.664	26.362	6.18	1
250	8.133	34.026	8.108	26.493	6.59	1
300	7.440	34.048	7.411	26.612	7.37	1
400	6.413	34.160	6.377	26.841	8.74	1
500	5.528	34.208	5.486	26.990	9.94	1

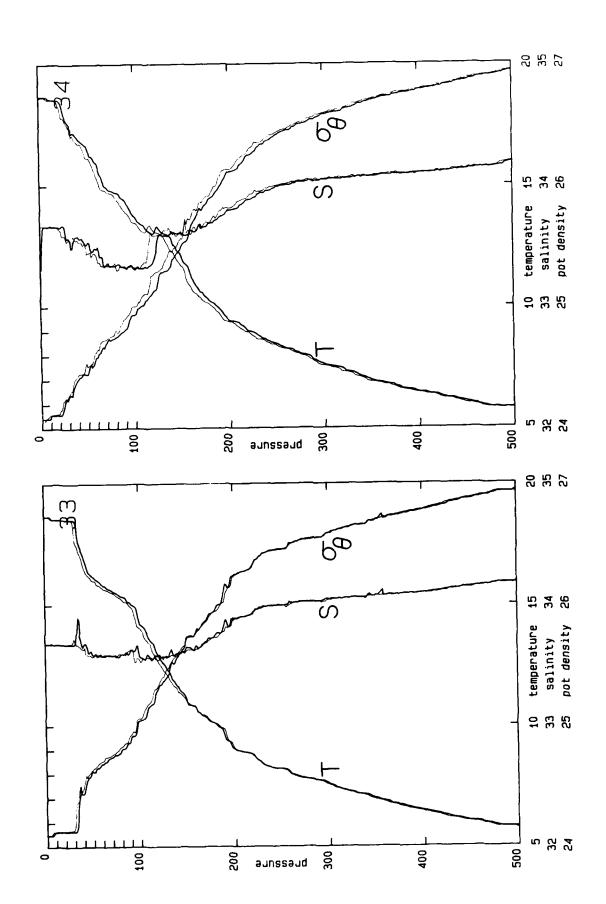
STATES OF THE ST



FRONTS I

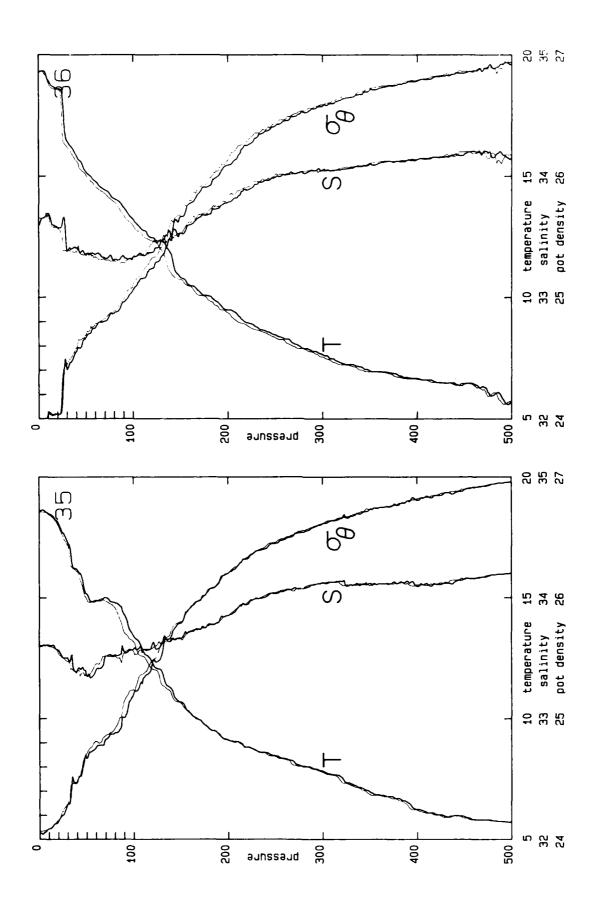
station	date:time	latitude	longitude	wind speed knots	wind direction WMO code	
33	187:12: 5	31 14.8 N	120 40.5 W	3	15	
depth	temperature	salinity	potential	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	(m/s)2	
0	18.660	33.680	18.660	24.099	0.	2
10	18.546	33.675	18.544	24.124	0.38	1
20	18.524	33.674	18.521	24.129	0.76	1
30	18.515	33.674	18.510	24.132	1.15	1
40	17.138	33.654	17.131	24.451	1.51	1
50	16.205	33.593	16.197	24.622	1.84	1
60	15.867	33.578	15.858	24.687	2.18	1
70	15.610	33.581	15.599	24.747	2.50	1
80	15.369	33.591	15.357	24.808	2.82	1
90	15.074	33.617	15.060	24.893	3.14	1
100	14.185	33.571	14.171	25.048	3.44	1
125	12.571	33.569	12.554	25.372	4.14	1
150	10.949	33.649	10.931	25.736	4.76	1
175	10.154	33.719	10.134	25.929	5.31	1
200	8.993	33.887	8.971	26.251	5.81	1
225	8.526	33.963	8.502	26.384	6.25	1
250	8.199	33.991	8.173	26.456	6.66	1
300	7.534	34.040	7.505	26.592	7.43	1
400	6 <b>.459</b>	34.095	6.423	26.783	8.84	1
500	5.730	34.191	5.687	26.953	10.08	1
station	date: time	latitude	longitude	wind speed	wind direction	
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
station 34		1atitude 30 58.0 N	longitude 120 37.2 W	_		<u> </u>
	julian: GMT		120 37.2 W	knots	WMO code 36 geopotential	flag
34	julian: GMT 187:14:36	30 58.0 N	120 37.2 W	knots 7	WMO code 36	fla
34 depth	julian: GMT 187:14:36 temperature	30 58.0 N	120 37.2 W  potential temperature	knots 7 sigma-theta	geopotential anomaly (m/s) 2	fla
34 depth (m)	julian: GMT 187:14:36 temperature (degree C)	30 58.0 N salinity 33.314 33.674	potential temperature (degree C)	knots 7 sigma-theta (kg/m <sup>3</sup> )	geopotential anomaly (m/s) 2	
34 depth (m)	julian: GMT 187:14:36 temperature (degree C) 18.657	30 58.0 N salinity 33.314	potential temperature (degree C)	knots 7 sigma-theta (kg/m <sup>3</sup> ) 23.820	geopotential anomaly (m/s) 2	
34 depth (m) 0 10	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608	30 58.0 N salinity 33.314 33.674	potential temperature (degree C) 18.657 18.606	knots 7 sigma-theta (kg/m <sup>3</sup> ) 23.820 24.108	geopotential anomaly (m/s) 2  0. 0.39	2 1
34 depth (m) 0 10 20	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531	30 58.0 N salinity 33.314 33.674 33.661	potential temperature (degree C) 18.657 18.606 18.528	knots 7 sigma-theta (kg/m <sup>3</sup> ) 23.820 24.108 24.118	geopotential anomaly (m/s) 2  0. 0.39 0.77	2 1 1
34 depth (m) 0 10 20 30	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604	30 58.0 N salinity 33.314 33.674 33.661 33.572	potential temperature (degree C) 18.657 18.606 18.528 17.599	knots 7 sigma-theta (kg/m <sup>3</sup> ) 23.820 24.108 24.118 24.277	#MO code 36 geopotential anomaly (m/s) 2 0. 0.39 0.77 1.14	2 1 1
34 depth (m) 0 10 20 30 40	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604 17.023	30 58.0 N salinity  33.314 33.674 33.661 33.572 33.587	potential temperature (degree C) 18.657 18.606 18.528 17.599 17.016	knots 7 sigma-theta (kg/m <sup>3</sup> ) 23.820 24.108 24.118 24.277 24.427	WMO code 36  geopotential anomaly (m/s) 2  0. 0.39 0.77 1.14 1.50	2 1 1 1
34  depth (m)  0 10 20 30 40 50	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604 17.023 16.647	30 58.0 N salinity  33.314 33.674 33.661 33.572 33.587 33.528	potential temperature (degree C) 18.657 18.606 18.528 17.599 17.016 16.639	knots 7 sigma-theta (kg/m <sup>3</sup> ) 23.820 24.108 24.118 24.277 24.427 24.470	WMO code 36  geopotential anomaly (m/s) 2  0. 0.39 0.77 1.14 1.50 1.86	2 1 1 1 1
34 depth (m) 0 10 20 30 40 50 60	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604 17.023 16.647 15.958	30 58.0 N salinity  33.314 33.674 33.661 33.572 33.587 33.528 33.482	potential temperature (degree C) 18.657 18.606 18.528 17.599 17.016 16.639 15.949	knots 7  sigma-theta (kg/m³)  23.820 24.108 24.118 24.277 24.427 24.470 24.593	WMO code 36  geopotential anomaly (m/s) 2  0. 0.39 0.77 1.14 1.50 1.86 2.20	2 1 1 1 1 1
34 depth (m) 0 10 20 30 40 50 60 70	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604 17.023 16.647 15.958 14.945	30 58.0 N salinity  33.314 33.674 33.661 33.572 33.587 33.528 33.482 33.354	potential temperature (degree C) 18.657 18.606 18.528 17.599 17.016 16.639 15.949 14.935	knots 7  sigma-theta (kg/m³)  23.820 24.108 24.118 24.277 24.427 24.427 24.470 24.593 24.718	WMO code 36  geopotential anomaly (m/s) 2  0. 0.39 0.77 1.14 1.50 1.86 2.20 2.53	2 1 1 1 1 1 1 1 1
34 depth (m) 0 10 20 30 40 50 60 70 80	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604 17.023 16.647 15.958 14.945 14.724	30 58.0 N salinity  33.314 33.674 33.661 33.572 33.587 33.528 33.482 33.354 33.354	potential temperature (degree C) 18.657 18.606 18.528 17.599 17.016 16.639 15.949 14.935 14.712	knots 7  sigma-theta (kg/m³)  23.820 24.108 24.118 24.277 24.427 24.470 24.593 24.718 24.759	WMO code 36  geopotential anomaly (m/s) 2  0. 0.39 0.77 1.14 1.50 1.86 2.20 2.53 2.85	2 1 1 1 1 1 1 1
34  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604 17.023 16.647 15.958 14.945 14.724 14.360	30 58.0 N  salinity  33.314 33.674 33.661 33.572 33.587 33.528 33.482 33.354 33.354 33.345 33.321	potential temperature (degree C) 18.657 18.606 18.528 17.599 17.016 16.639 15.949 14.935 14.712 14.347	knots 7  sigma-theta (kg/m³)  23.820 24.108 24.118 24.277 24.427 24.470 24.593 24.718 24.759 24.818	WMO code 36  geopotential anomaly (m/s) 2  0. 0.39 0.77 1.14 1.50 1.86 2.20 2.53 2.85 3.17	2 1 1 1 1 1 1 1 1 1 1 1 1
34 depth (m) 0 10 20 30 40 50 60 70 80 90 100	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604 17.023 16.647 15.958 14.945 14.724 14.360 13.728 13.233 11.929	30 58.0 N  salinity  33.314 33.674 33.661 33.572 33.587 33.528 33.482 33.354 33.354 33.354 33.310	potential temperature (degree C) 18.657 18.606 18.528 17.599 17.016 16.639 15.949 14.935 14.712 14.347 13.714	knots 7  sigma-theta (kg/m³)  23.820 24.108 24.118 24.277 24.427 24.470 24.593 24.718 24.759 24.818 24.941	WMO code 36  geopotential anomaly (m/s) 2  0. 0.39 0.77 1.14 1.50 1.86 2.20 2.53 2.85 3.17 3.48	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
34  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604 17.023 16.647 15.958 14.945 14.724 14.360 13.728 13.233	30 58.0 N  salinity  33.314 33.674 33.661 33.572 33.587 33.528 33.482 33.354 33.354 33.354 33.355 33.355 33.355 33.355	potential temperature (degree C) 18.657 18.606 18.528 17.599 17.016 16.639 15.949 14.935 14.712 14.347 13.714	knots 7  sigma-theta (kg/m³)  23.820 24.108 24.118 24.277 24.427 24.470 24.593 24.718 24.759 24.818 24.941 25.260	WMO code 36  geopotential anomaly (m/s) 2  0. 0.39 0.77 1.14 1.50 1.86 2.20 2.53 2.85 3.17 3.48 4.21	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
34  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604 17.023 16.647 15.958 14.945 14.724 14.360 13.728 13.233 11.929	30 58.0 N salinity  33.314 33.674 33.661 33.572 33.587 33.528 33.482 33.354 33.345 33.321 33.310 33.593 33.604	potential temperature (degree C) 18.657 18.606 18.528 17.599 17.016 16.639 15.949 14.935 14.712 14.347 13.714 13.216 11.910	knots 7  sigma-theta (kg/m³)  23.820 24.108 24.118 24.277 24.427 24.427 24.470 24.593 24.718 24.759 24.818 24.941 25.260 25.522	WMO code 36  geopotential anomaly (m/s) <sup>2</sup> 0. 0.39 0.77 1.14 1.50 1.86 2.20 2.53 2.85 3.17 3.48 4.21 4.87	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
34  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604 17.023 16.647 15.958 14.945 14.724 14.360 13.728 13.233 11.929 10.372	30 58.0 N salinity  33.314 33.674 33.661 33.572 33.587 33.528 33.482 33.354 33.345 33.321 33.310 33.593 33.604 33.666	potential temperature (degree C) 18.657 18.606 18.528 17.599 17.016 16.639 15.949 14.935 14.712 14.347 13.714 13.216 11.910 10.351	knots 7  sigma-theta (kg/m³)  23.820 24.108 24.118 24.277 24.427 24.427 24.470 24.593 24.718 24.759 24.818 24.941 25.260 25.522 25.851	WMO code 36  geopotential anomaly (m/s) 2  0. 0.39 0.77 1.14 1.50 1.86 2.20 2.53 2.85 3.17 3.48 4.21 4.87 5.46	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
34  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604 17.023 16.647 15.958 14.945 14.724 14.360 13.728 13.233 11.929 10.372 9.415	30 58.0 N salinity  33.314 33.674 33.661 33.572 33.587 33.528 33.482 33.354 33.345 33.321 33.310 33.593 33.604 33.666 33.799	potential temperature (degree C) 18.657 18.606 18.528 17.599 17.016 16.639 15.949 14.935 14.712 14.347 13.714 13.216 11.910 10.351 9.393	knots 7  sigma-theta (kg/m³)  23.820 24.108 24.118 24.277 24.427 24.427 24.470 24.593 24.718 24.759 24.818 24.941 25.260 25.522 25.851 26.115	WMO code 36  geopotential anomaly (m/s) 2  0. 0.39 0.77 1.14 1.50 1.86 2.20 2.53 2.85 3.17 3.48 4.21 4.87 5.46 5.97	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
34  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604 17.023 16.647 15.958 14.945 14.724 14.360 13.728 13.233 11.929 10.372 9.415 8.912	30 58.0 N salinity  33.314 33.674 33.661 33.572 33.587 33.528 33.482 33.345 33.345 33.345 33.321 33.310 33.593 33.604 33.666 33.799 33.897	potential temperature (degree C) 18.657 18.606 18.528 17.599 17.016 16.639 15.949 14.935 14.712 14.347 13.714 13.216 11.910 10.351 9.393 8.888	knots 7  sigma-theta (kg/m³)  23.820 24.108 24.118 24.277 24.427 24.427 24.470 24.593 24.718 24.759 24.818 24.759 24.818 24.941 25.260 25.522 25.851 26.115 26.272	WMO code 36  geopotential anomaly (m/s) 2  0. 0.39 0.77 1.14 1.50 1.86 2.20 2.53 2.85 3.17 3.48 4.21 4.87 5.46 5.97 6.44 6.87 7.66	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250	julian: GMT 187:14:36 temperature (degree C) 18.657 18.608 18.531 17.604 17.023 16.647 15.958 14.945 14.724 14.360 13.728 13.233 11.929 10.372 9.415 8.912 8.434	30 58.0 N  salinity  33.314 33.674 33.661 33.572 33.587 33.528 33.482 33.345 33.345 33.321 33.310 33.593 33.604 33.666 33.799 33.897 33.990	potential temperature (degree C) 18.657 18.606 18.528 17.599 17.016 16.639 15.949 14.935 14.712 14.347 13.714 13.216 11.910 10.351 9.393 8.888 8.408	knots 7  sigma-theta (kg/m³)  23.820 24.108 24.118 24.277 24.427 24.427 24.470 24.593 24.718 24.759 24.818 24.759 24.818 24.941 25.260 25.522 25.851 26.115 26.272 26.420	WMO code 36  geopotential anomaly (m/s) 2  0. 0.39 0.77 1.14 1.50 1.86 2.20 2.53 2.85 3.17 3.48 4.21 4.87 5.46 5.97 6.44 6.87	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

このことは、「日本のこれのこれをは、「日本のこれでは、日本のこれでは、「日本のこれでは、日本のこれでは、「日本のこれでは、日本のこれでは、「日本のこれでは、日本のこれで



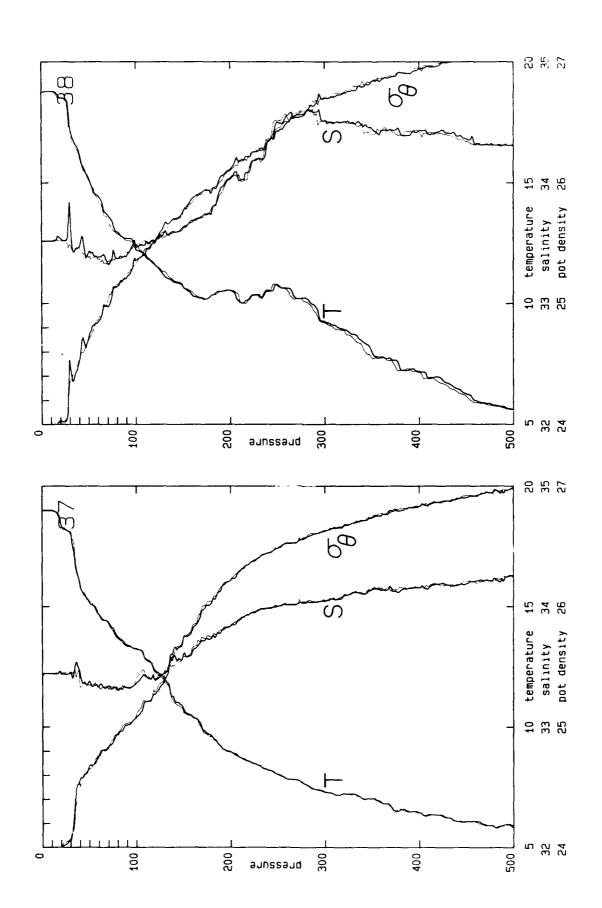
FRONTS I

RV NEW HO	DRIZON	FRONT	rs I			
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
35	187:18:41	30 41.2 N	120 33.4 W	5	1	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	18.605	33.598	18.605	24.050	0.	2
10	18.486	33.610	18.484	24.089	0.39	1
20	18.099	33.568	18.096	24.153	0.77	1
30	17.302	33.508	17.297	24,300	1.14	1
40	16.173	33.395	16.167	24.476	1.49	1
50	15.145	33.376	15.137	24.691	1.83	1
60	14.901	33.402	14.892	24.764	2.16	1
70	15.003	33.518	14.992	24.832	2.47	1
80	14.778	33.526	14.766	24.887	2.79	1
90	14.280	33.548	14.267	25.010	3.09	1
100	13.391	33.581	13.377	25.219	3.38	1
125	12.055	33.575	12.039	25.476	4.04	1
150	10.676	33.662	10.658	25.795	4.63	1
175	9.721	33.747	9.701	26.024	5.16	1
200	9.090	33.856	9.068	26.212	5.64	1
225	8.738	33.981	8.714	26.365	6.09	1
250	8.437	34.035	8.411	26.454	6.50	ī
300	7.791	34.123	7.761	26.620	7.27	ī
400	6.242	34.097	6.207	26.813	8.65	1
500	5.696	34.206	5.653	26.969	9.87	1
station	date:time	latitude	longitude	wind speed	wind direction	
36	julian: GMT 188: 0:52	30 50.0 N	121 16.6 W	knots 10	WMO code 3	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
	4.4 (8)		temperature	4. 4.3.	anomaly	
(m)	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	19.295	33.600	19.295	23.878	0.	2
10	18.951	33.694	18.949	24.037	0.40	1
20	18.591	33.578	18.588	24.039	0.79	1
30	16.455	33.383	16.450	24.402	1.16	1
40	15.837	33.405	15.831	24.560	1.51	1
50	15.162	33.365	15.154	24.679	1.84	1
60	14.774	33.357	14.765	24.757	2.17	1
70	14.414	33.325	14.404	24.809	2.48	1
80	14.053	33.312	14.042	24.875	2.80	1
90	13.695	33.330	13.682	24.963	3.11	1
100	13.191	33.336	13.177	25.069	3.40	1
125	12.328	33.409	12.312	25.295	4.11	1
150	10.794	33.532	10.776	25.673	4.74	1
175	10.074	33.677	10.054	25.910	5.30	1
200	9.481	33.788	9.459	26.096	5.82	1
225	8.888	33.906	8.864	26.283	6.28	1
250	8.426	33.996	8.400	26.426	6.71	1
300	7.612	34.064	7.582	26.600	7.49	1
400	6.648	34.142	6.611	26.796	8.89	1
500	5.765	34.158	5.722	26.922	10.14	1



FRONTS I

	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
37	188: 4: 5	31 8.7 N	121 19.6 W	10	36	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	18.992	33.433	18.992	23.827	0.	2
10	18.988	33.445	18.986	23.838	0.41	1
20	18.385	33.441	18.382	23.986	0.81	1
30	18.106	33.447	18.101	24.059	1.20	1
40	15.956	33.450	15.950	24.568	1.56	1
50	15.189	33.379	15.181	24.684	1.90	1
60	14.668	33.338	14.659	24.765	2.22	1
70	14.327	33.341	14.317	24.840	2.54	1
80	13.728	33,305	13.717	24.936	2.85	1
90	13.384	33.322	13.372	25.020	3.15	1
100	13.220	33.370	13.206	25.090	3.45	1
125	12.149	33.426	12.133	25.342	4.14	1
150	10.688	33.625	10.670	25.764	4.76	1
175	9.705	33.731	9.685	26.014	5.30	1
200	8.930	33.843	8.909	26.227	5.78	1
225	8.462	33.949	8.439	26.383	6.22	1
250	8.000	34.004	7.975	26.496	6.63	1
300	7.286	34.047	7.257	26.633	7.39	1
400	6.406	34.165	6.370	26.846	8.75	1
500	5.938	34.265	5.894	26.985	9.95	4
station	date: time	latitude	longitude	wind speed	wind direction	
	julian: GMT		-	knots	WMO code	
38	188: 6:25	31 25.3 N	121 23.9 W	15	36	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
depth (m)	temperature (degree C)	salinity	potential temperature (degree C)	sigma-theta (kg/m <sup>3</sup> )	geopotential anomaly (m/s) <sup>2</sup>	flag
(m)	(degree C)	33.516	temperature (degree C)	(kg/m <sup>3</sup> )	anomaly	2
(m) 0 10	(degree C)  18.753 18.768	33.516 33.516	temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
(m) 0 10 20	(degree C)  18.753 18.768 18.504	33.516 33.516 33.537	temperature (degree C) 18.753 18.766 18.501	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	2 1 1
(m) 0 10 20 30	18.753 18.768 18.504 17.360	33.516 33.516 33.537 33.824	temperature (degree C) 18.753 18.766 18.501 17.355	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528	anomaly (m/s) <sup>2</sup> 0. 0.40 0.79 1.18	2 1 1
0 10 20 30 40	18.753 18.768 18.504 17.360 16.192	33.516 33.516 33.537 33.824 33.461	18.753 18.766 18.501 17.355 16.186	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523	anomaly (m/s) <sup>2</sup> 0. 0.40 0.79 1.18 1.53	2 1 1 1
0 10 20 30 40 50	18.753 18.768 18.504 17.360 16.192 15.180	33.516 33.516 33.537 33.824 33.461 33.424	18.753 18.766 18.501 17.355 16.186 15.172	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720	0. 0.40 0.79 1.18 1.53 1.86	2 1 1 1 1
0 10 20 30 40 50	18.753 18.768 18.504 17.360 16.192 15.180 14.433	33.516 33.516 33.537 33.824 33.461 33.424 33.381	18.753 18.766 18.501 17.355 16.186 15.172	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720 24.848	0. 0.40 0.79 1.18 1.53 1.86 2.17	2 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70	18.753 18.768 18.504 17.360 16.192 15.180 14.433 13.607	33.516 33.516 33.537 33.824 33.461 33.424 33.381 33.314	18.753 18.766 18.501 17.355 16.186 15.172 14.424 13.597	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720 24.848 24.968	0. 0.40 0.79 1.18 1.53 1.86 2.17 2.48	2 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80	18.753 18.768 18.504 17.360 16.192 15.180 14.433 13.607 12.950	33.516 33.516 33.537 33.824 33.461 33.424 33.381 33.314 33.373	18.753 18.766 18.501 17.355 16.186 15.172 14.424 13.597 12.939	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720 24.848 24.968 25.145	0. 0.40 0.79 1.18 1.53 1.86 2.17 2.48 2.77	2 1 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90	18.753 18.768 18.504 17.360 16.192 15.180 14.433 13.607 12.950 12.682	33.516 33.516 33.537 33.824 33.461 33.424 33.381 33.314 33.373 33.393	18.753 18.766 18.501 17.355 16.186 15.172 14.424 13.597 12.939 12.670	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720 24.848 24.968 25.145 25.214	anomaly (m/s) <sup>2</sup> 0. 0.40 0.79 1.18 1.53 1.86 2.17 2.48 2.77 3.05	2 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90 100	18.753 18.768 18.504 17.360 16.192 15.180 14.433 13.607 12.950 12.682 12.209	33.516 33.516 33.537 33.824 33.461 33.424 33.381 33.314 33.373 33.393 33.460	temperature (degree C) 18.753 18.766 18.501 17.355 16.186 15.172 14.424 13.597 12.939 12.670 12.196	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720 24.848 24.968 25.145 25.214 25.357	anomaly (m/s) <sup>2</sup> 0. 0.40 0.79 1.18 1.53 1.86 2.17 2.48 2.77 3.05 3.32	2 1 1 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90 100 125	18.753 18.768 18.504 17.360 16.192 15.180 14.433 13.607 12.950 12.682 12.209 11.384	33.516 33.516 33.537 33.824 33.461 33.424 33.381 33.314 33.373 33.393 33.460 33.557	temperature (degree C) 18.753 18.766 18.501 17.355 16.186 15.172 14.424 13.597 12.939 12.670 12.196 11.368	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720 24.848 24.968 25.145 25.214 25.357 25.586	anomaly (m/s) <sup>2</sup> 0. 0.40 0.79 1.18 1.53 1.86 2.17 2.48 2.77 3.05 3.32 3.96	2 1 1 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90 100 125 150	18.753 18.768 18.504 17.360 16.192 15.180 14.433 13.607 12.950 12.682 12.209 11.384 10.662	33.516 33.516 33.537 33.824 33.461 33.424 33.381 33.314 33.373 33.393 33.460 33.557 33.630	temperature (degree C) 18.753 18.766 18.501 17.355 16.186 15.172 14.424 13.597 12.939 12.670 12.196 11.368 10.644	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720 24.848 24.968 25.145 25.214 25.357 25.586 25.772	anomaly (m/s) <sup>2</sup> 0. 0.40 0.79 1.18 1.53 1.86 2.17 2.48 2.77 3.05 3.32 3.96 4.55	2 1 1 1 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175	18.753 18.768 18.504 17.360 16.192 15.180 14.433 13.607 12.950 12.682 12.209 11.384 10.662 10.194	33.516 33.516 33.537 33.824 33.461 33.424 33.381 33.314 33.373 33.393 33.460 33.557 33.630 33.742	temperature (degree C) 18.753 18.766 18.501 17.355 16.186 15.172 14.424 13.597 12.939 12.670 12.196 11.368 10.644 10.174	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720 24.848 24.968 25.145 25.214 25.357 25.586 25.772 25.941	anomaly (m/s) <sup>2</sup> 0. 0.40 0.79 1.18 1.53 1.86 2.17 2.48 2.77 3.05 3.32 3.96 4.55 5.09	2 1 1 1 1 1 1 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200	18.753 18.768 18.504 17.360 16.192 15.180 14.433 13.607 12.950 12.682 12.209 11.384 10.662 10.194 10.521	33.516 33.516 33.537 33.824 33.461 33.424 33.381 33.314 33.373 33.393 33.460 33.557 33.630 33.742 34.045	temperature (degree C) 18.753 18.766 18.501 17.355 16.186 15.172 14.424 13.597 12.939 12.670 12.196 11.368 10.644 10.174 10.497	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720 24.848 24.968 25.145 25.214 25.357 25.586 25.772 25.941 26.121	anomaly (m/s) <sup>2</sup> 0. 0.40 0.79 1.18 1.53 1.86 2.17 2.48 2.77 3.05 3.32 3.96 4.55 5.09 5.60	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225	18.753 18.768 18.504 17.360 16.192 15.180 14.433 13.607 12.950 12.682 12.209 11.384 10.662 10.194 10.521 10.350	33.516 33.516 33.537 33.824 33.461 33.424 33.381 33.314 33.373 33.393 33.460 33.557 33.630 33.742 34.045 34.183	temperature (degree C) 18.753 18.766 18.501 17.355 16.186 15.172 14.424 13.597 12.939 12.670 12.196 11.368 10.644 10.174 10.497 10.323	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720 24.848 24.968 25.145 25.214 25.357 25.586 25.772 25.941 26.121 26.259	anomaly (m/s) <sup>2</sup> 0. 0.40 0.79 1.18 1.53 1.86 2.17 2.48 2.77 3.05 3.32 3.96 4.55 5.09 5.60 6.07	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250	(degree C)  18.753 18.768 18.504 17.360 16.192 15.180 14.433 13.607 12.950 12.682 12.209 11.384 10.662 10.194 10.521 10.350 10.759	33.516 33.516 33.537 33.824 33.461 33.424 33.381 33.314 33.373 33.393 33.460 33.557 33.630 33.742 34.045 34.183 34.493	temperature (degree C) 18.753 18.766 18.501 17.355 16.186 15.172 14.424 13.597 12.939 12.670 12.196 11.368 10.644 10.174 10.497 10.323 10.728	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720 24.848 24.968 25.145 25.214 25.357 25.586 25.772 25.941 26.121 26.259 26.430	anomaly (m/s) <sup>2</sup> 0. 0.40 0.79 1.18 1.53 1.86 2.17 2.48 2.77 3.05 3.32 3.96 4.55 5.09 5.60 6.07 6.50	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250 300	18.753 18.768 18.504 17.360 16.192 15.180 14.433 13.607 12.950 12.682 12.209 11.384 10.662 10.194 10.521 10.350 10.759 9.218	33.516 33.516 33.537 33.824 33.461 33.424 33.381 33.314 33.373 33.460 33.557 33.630 33.742 34.045 34.183 34.493 34.507	temperature (degree C) 18.753 18.766 18.501 17.355 16.186 15.172 14.424 13.597 12.939 12.670 12.196 11.368 10.644 10.174 10.497 10.323 10.728 9.185	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720 24.848 24.968 25.145 25.214 25.357 25.586 25.772 25.941 26.121 26.259 26.430 26.703	anomaly (m/s) <sup>2</sup> 0. 0.40 0.79 1.18 1.53 1.86 2.17 2.48 2.77 3.05 3.32 3.96 4.55 5.09 5.60 6.07 6.50 7.26	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250	(degree C)  18.753 18.768 18.504 17.360 16.192 15.180 14.433 13.607 12.950 12.682 12.209 11.384 10.662 10.194 10.521 10.350 10.759	33.516 33.516 33.537 33.824 33.461 33.424 33.381 33.314 33.373 33.393 33.460 33.557 33.630 33.742 34.045 34.183 34.493	temperature (degree C) 18.753 18.766 18.501 17.355 16.186 15.172 14.424 13.597 12.939 12.670 12.196 11.368 10.644 10.174 10.497 10.323 10.728	(kg/m <sup>3</sup> )  23.951 23.947 24.030 24.528 24.523 24.720 24.848 24.968 25.145 25.214 25.357 25.586 25.772 25.941 26.121 26.259 26.430	anomaly (m/s) <sup>2</sup> 0. 0.40 0.79 1.18 1.53 1.86 2.17 2.48 2.77 3.05 3.32 3.96 4.55 5.09 5.60 6.07 6.50	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

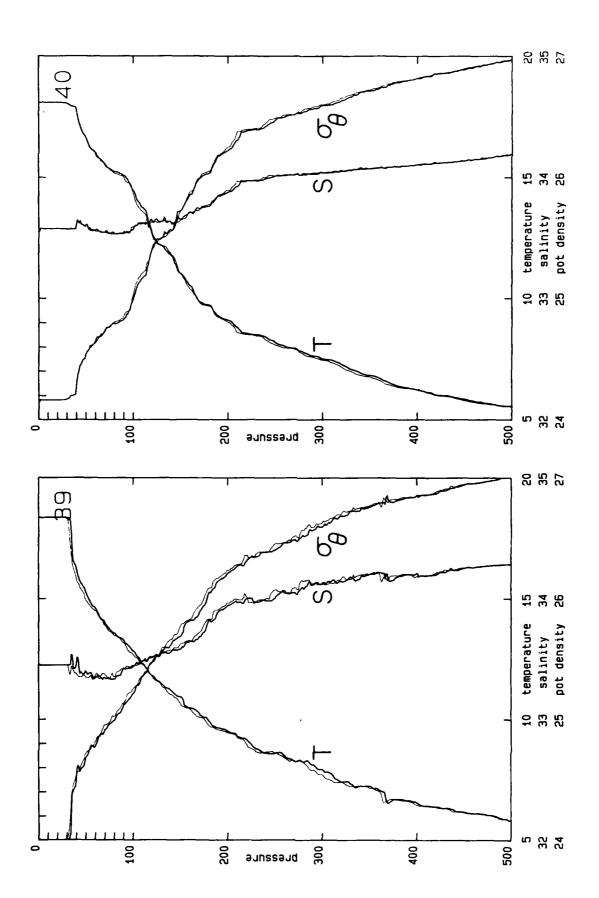


RV	NEW	HOR	17	ZON		
*ti	tio	1	-	iate	:	tim

FRONTS I

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
39	188: 8:50	31 43.1 N	121 27.5 W	17	4	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	18.339	33.454	18.339	24.006	0.	2
10	18.361	33.449	18.359	23.997	0.39	1
20	18.356	33.448	18.353	23.998	0.79	1
30	18.336	33.448	18.331	24.004	1.18	1
40	16.245	33.450	16.239	24.502	1.55	1
50	15.245	33.400	15.237	24.688	1.88	1
60	14.591	33.346	14.582	24.787	2.21	1 1 1
70	13.965	33.344	13.955	24.917	2.52	1
80	13.555	33.334	13.544	24.994	2.82	1 1
90	13.238	33.425	13.226	25.129	3,11	1
100	12.813	33.438	12.800	25.223	3.40	1
125	11.597	33.528	11.581	25.524	4.05	1
150	10.914	33.584	10.896	25.692	4.66	1
175	10.070	33.734	10.050	25.955	5.21	1 1 1
200	9.486	33.947	9.464	26.219	5.69	1
225	8.887	34.003	8.863	26.359	6.14	1
250	8.617	34.015	8.591	26.411	6,56	1 1
300	7.879	34.127	7.849	26.611	7.35	1
400	6.495	34.192	6.459	26.855	8.69	1
500	5.776	34.289	5.733	27.024	9.87	4

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
40	188:11: 7	32 0.2 N	121 31.1 W	9	36	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
			temperature	_	anomaly	
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	$(\mathbf{m}/\mathbf{s})^2$	
0	18.066	33.553	18.066	24.149	0.	2
10	18.080	33.575	18.078	24.163	0.38	1
20	18.079	33.575	18.076	24.164	0.76	1
30	18.036	33.571	18.031	24.171	1.13	1
40	17.785	33.605	17.778	24,259	1.51	1
50	16.595	33.607	16.587	24.543	1.86	1
60	15.970	33.563	15.961	24.652	2.19	1
70	15.544	33.551	15.533	24.739	2.52	1
80	15.224	33.531	15.212	24.794	2.84	1
90	15.063	33.538	15.049	24.835	3.16	1
100	14.426	33.580	14.411	25.004	3.47	1
125	12.252	33.652	12.236	25.498	4.16	1
150	11.016	33.654	10.998	25.728	4.77	1
175	9.749	33.753	9.729	26.024	5.30	1
200	9.088	33.881	9.066	26.232	5.78	1
225	8.505	33.971	8.481	26.394	6.22	1
250	8.149	34.012	8.124	26,480	6.63	1
300	7.493	34.037	7.464	26.596	7.40	1
400	6.213	34.107	6.178	26.825	8.79	1
500	5.544	34.191	5.502	26.975	10.00	1



THE PROPERTY OF THE PROPERTY OF THE PARTY OF

RV NEW HO	DKIZUN	FRON	18 1			
station	date: time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
41	188:13:42	32 16.3 N	121 35.7 W	16	1	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	17.976	33.557	17.976	24.174	0.	2
10	17.983	33.557	17.981	24.173	0.38	1
20	17.988	33.556	17.985	24.171	0.75	1
30	17.896	33.561	17.891	24.198	1.13	1
40	15.789	33.411	15.783	24.575	1.48	1
50	15.136	33.427	15.128	24.732	1.81	1
60	14.561	33.364	14.552	24.808	2.13	ī
70	14.112	33.337	14.102	24.882	2.45	î
80	13.613	33.313	13.602	24.966	2.75	i
90	12.994	33.372	12.982	25.136		1
100	12.453	33.488	12.440		3.04	1
125	11.603	33.538		25.332	3.32	
150	10.119		11.587	25.531	3.97	1
		33.674	10.102	25.900	4.54	1
175	9.624	33.816	9.604	26.094	5.05	1
200	9.010	33.886	8.988	26.248	5.52	1
225	8.588	33.954	8.564	26.367	5.96	1
250	8.089	34.001	8.064	26.480	6.37	1
300	7.390	34.048	7.361	26.619	7.14	1
400	6.371	34.107	6.335	26.804	8.52	1
500	5.623	34.203	5.581	26.975	9.74	1
station	date:time julian: GMT	latitude	longitude	wind speed	wind direction	· · · · · · · · · · · · · · · · · · ·
42	188:15:56	32 33.4 N	121 38.7 W	knots 14	WMO code 3	
depth	temperature	salinity	potential	sigma-theta	geopotential	fla
			temperature	•	anomaly	
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	16.807	33.219	16.807	24.194	0.	2
10	16.795	33.222	16.793	24.199	0.37	1
20	16.463	33.225	16.460	24.279	0.74	1
30	15.941	33.301	15.936	24.456	1.10	1
40	14.396	33.280	14.390	24.777	1.43	1
50	13.765	33.271	13.758	24.902	1.74	1
60	13.388	33.296	13.380	24.998	2.05	1
70	12.291	33.204	12.282	25.142	2.34	1
80	12.306	33.177	12.296	25.118	2.63	1
90	12.167	33.351	12.155	25.280	2.91	ī
100	12 040	22 404	10.026			_

12.036

11.120

9.798

9.304

8.914

8.503

8.072

7.333

6.377

5.676

25.343

25.566

25.906

26.137

26.260

26.400

26.485

26.639

26.837

27.014

3.18

3.81

4.38

4.89

5.35

5.79

6.19

6.95

8.30

9.49

1

1

1

1

100

125

150

175

200

225

250

300

400

500

12.049

11.135

9.815

9.323

8.935

8.527

8.097

7.362

6.413

5.719

33.404

33.473

33.616

33.809

33.886

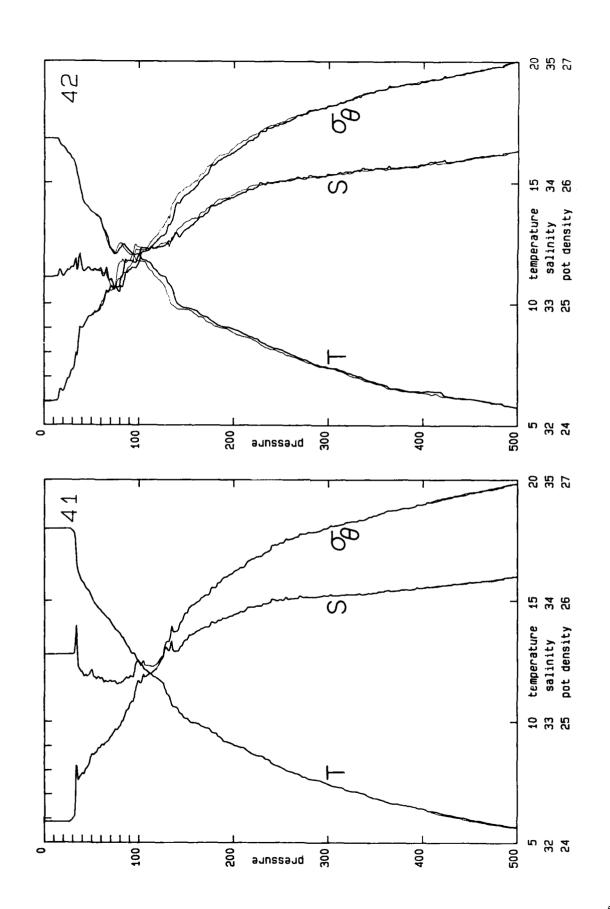
33.984

34.009

34.069

34.155

34.267



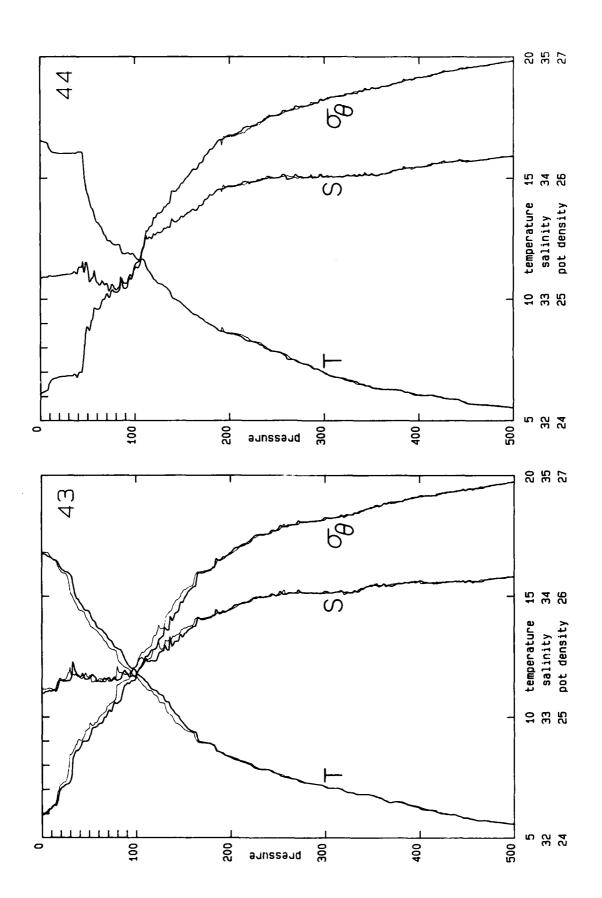
	RV	NEW	HORIZO	۱
--	----	-----	--------	---

FRONTS I

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
43	188:20:21	32 52.0 N	121 42.7 ₩	12	36	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	fla
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	16.742	33.198	16.742	24.193	0.	2
10	16.576	33.214	16.574	24.244	0.37	1
20	16.173	33.305	16.170	24.406	0.74	1
30	15.906	33.303	15.901	24.466	1.09	1
40	14.762	33.336	14.756	24.743	1.42	1
50	14.351	33.325	14.344	24.822	1.73	1
60	13.660	33.297	13.652	24.944	2.04	1
70	13.243	33.324	13.233	25.049	2.34	1
80	12.815	33.301	12.804	25.116	2.63	1
90	12.197	33.359	12.185	25.280	2.91	1
100	11.813	33.366	11.800	25.358	3.18	1
125	10.917	33.536	10.902	25.653	3.81	1
150	9.690	33.678	9.673	25.975	4.36	1
175	8.903	33.815	8.884	26.209	4.85	1
200	8.292	33.899	8.271	26.369	5,29	1
225	7.861	33.988	7.839	26.503	5.70	1
250	7.612	34.023	7.588	26.567	6.08	1
300	7.064	34.032	7.036	26.652	6.82	1
400	6.232	34.124	6.197	26.836	8.18	1
500	5.555	34.165	5.513	26.953	9.41	4

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
44	189: 0:25	33 9.6 N	121 47.2 W	10	2	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degre. C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	16.527	33.175	16.527	24.225	0.	2
10	16.185	33.194	16.183	24.318	0.37	1
20	15.999	33.196	15.996	24.362	0.73	1
30	16.005	33.207	16.000	24.370	1.09	1
40	16.079	33.255	16.073	24.390	1.44	1
50	14.348	33.252	14.341	24.766	1.79	1
60	13.160	33.134	13.152	24.918	2.10	1
70	12.490	33.122	12.481	25.040	2.40	1
80	12.221	33.074	12.211	25.054	2.69	1
90	11.870	33.085	11.859	25.129	2.98	1
100	11.748	33.266	11.735	25.292	3.26	1
125	10.636	33.546	10.621	25.711	3.88	1
1 50	9.778	33.677	9.761	25.959	4.43	1
175	9.035	33.825	9.016	26.196	4.93	1
200	8.565	33.930	8.544	26.352	5.37	1
225	8,225	33.970	8.202	26.435	5.79	1
250	7.813	34.001	7.788	26.521	6.18	1
300	6.922	34.010	6.894	26.653	6.93	1
400	6.062	34.091	6.027	26.831	8.28	1
500	5.505	34.183	5.463	26.973	9.49	4

Basal Parasare Bararaa Assasar Saaraan Bararaan Bararaan Bararaan Bararaan Bararaan Parasaraa Bararaan Bararaa



THE SAME THE PROPERTY OF THE SAME OF THE S

date: time

julian: GMT

station

FRONTS I

longitude

wind speed

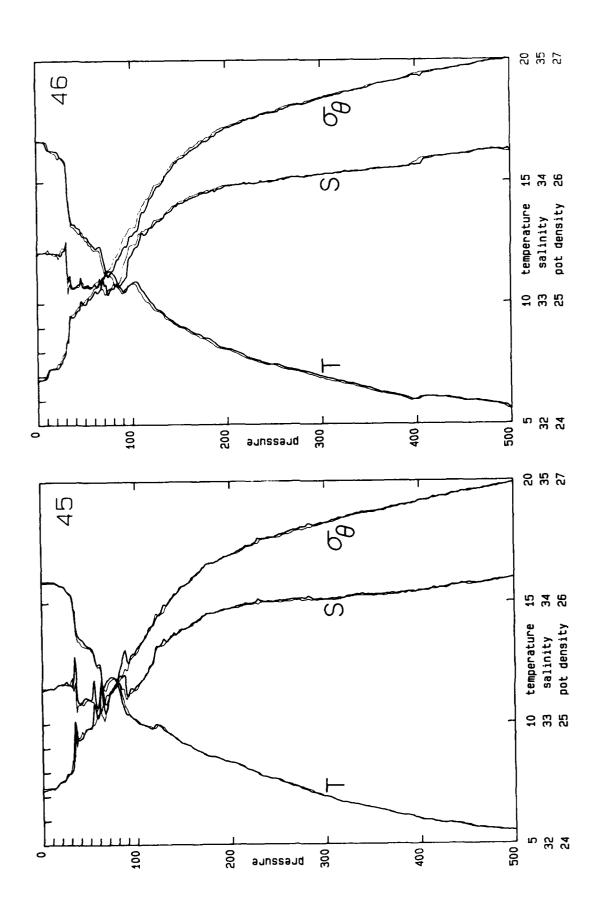
knots

wind direction

WMO code

latitude

	<del>-</del>	22 24 1 N	444 44 4 4			
45	189: 2:28	33 24.1 N	121 49.9 W	12	36	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	$(m/s)^{2}$	
0	15.888	33.275	15.888	24.447	0.	2
10	15.868	33.295	15.866	24.467	0.35	1
20	15.723	33.326	15.720	24.524	0.69	1
30	15.377	33.321	15.372	24.597	1.03	1
40	13.525	33.168	13.519	24.871	1.35	1
50	13.187	33.204	13.180	24.967	1.65	1
60	12.506	33.167	12.498	25.072	1.94	1
70	11.881	33.186	11.872	25.205	2.22	1
80	11.648	33.374	11.638	25.394	2.49	1
90	10.397	33.243	10.387	25.515	2.74	1
100	10.092	33.318	10.081	25.626	2.98	1
125	9.887	33.650	9.873	25.920	3.55	1
150	9.162	33.780	9.146	26.140	4.05	1
175	8.647	33.910	8.629	26.323	4.50	1
200	8.375	33.956	8.354	26.401	4.93	1
225	7.974	34.001	7.951	26.497	5.33	1
250	7.606	34.013	7.582	26.560	5.72	1
300	6.944	34.021	6.916	26.659	6.45	1
400	5.983	34.091	5.948	26.841	7.79	1
500	5.506	34.199	5.464	26.986	8.99	4
				-		
tation	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	<del></del>
			longitude 121 30.9 W		wind direction WMO code 2	
tation 46	julian: GMT	latitude	121 30.9 W	knots	WMO code 2 geopotential	flag
tation 46	julian: GMT 189: 4:49	1atitude 33 29.4 N	121 30.9 W	knots 15	WMO code 2	flag
tation 46 depth	julian: GMT 189: 4:49 temperature	1atitude 33 29.4 N	121 30.9 W  potential temperature	knots 15 sigma-theta	WMO code 2 geopotential anomaly	2
tation 46 depth (m)	julian: GMT 189: 4:49 temperature (degree C)	latitude 33 29.4 N salinity	potential temperature (degree C)	knots 15 sigma-theta (kg/m <sup>3</sup> )	WMO code 2 geopotential anomaly (m/s) <sup>2</sup>	
tation 46 depth (m)	julian: GMT 189: 4:49 temperature (degree C)	latitude 33 29.4 N salinity 33.406	potential temperature (degree C)	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364	geopotential anomaly (m/s) 2	2
46 depth (m) 0 10	julian: GMT 189: 4:49 temperature (degree C) 16.691 16.511	1atitude 33 29.4 N salinity 33.406 33.423	potential temperature (degree C)  16.691 16.509	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419	geopotential anomaly (m/s) <sup>2</sup> 0. 0.36	2 1
46 depth (m) 0 10 20	julian: GMT 189: 4:49 temperature (degree C) 16.691 16.511 16.261	1atitude 33 29.4 N salinity 33.406 33.423 33.411	potential temperature (degree C) 16.691 16.509 16.258	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468	geopotential anomaly (m/s) <sup>2</sup> 0. 0.36 0.71	2 1 1
tation 46 depth (m) 0 10 20 30	julian: GMT 189: 4:49 temperature (degree C) 16.691 16.511 16.261 15.856	1atitude 33 29.4 N salinity 33.406 33.423 33.411 33.458	potential temperature (degree C) 16.691 16.509 16.258 15.851	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596	WMO code 2  geopotential anomaly (m/s) 2  0. 0.36 0.71 1.05	2 1 1
tation 46 depth (m) 0 10 20 30 40	julian: GMT 189: 4:49 temperature (degree C) 16.691 16.511 16.261 15.856 13.238	33 29.4 N salinity  33.406 33.423 33.411 33.458 33.137	potential temperature (degree C) 16.691 16.509 16.258 15.851 13.233	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596 24.904	WMO code 2  geopotential anomaly (m/s) 2  0. 0.36 0.71 1.05 1.36	2 1 1 1 1 1
tation  46  depth (m)  0 10 20 30 40 50 60 70	julian: GMT 189: 4:49 temperature (degree C) 16.691 16.511 16.261 15.856 13.238 12.760 12.350 11.784	33 29.4 N salinity  33.406 33.423 33.411 33.458 33.137 33.131 33.157 33.185	potential temperature (degree C)  16.691 16.509 16.258 15.851 13.233 12.753 12.342 11.775	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596 24.904 24.994 25.094 25.222	WMO code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.36 0.71 1.05 1.36 1.66 1.96 2.24	2 1 1 1 1
0 10 20 30 40 50 60 70 80	julian: GMT 189: 4:49 temperature (degree C) 16.691 16.511 16.261 15.856 13.238 12.760 12.350 11.784 11.220	33 .406 33 .423 33 .411 33 .458 33 .137 33 .131 33 .157 33 .185 33 .122	potential temperature (degree C)  16.691 16.509 16.258 15.851 13.233 12.753 12.342 11.775 11.210	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596 24.904 24.994 25.094	WMO code 2  geopotential anomaly (m/s) 2  0. 0.36 0.71 1.05 1.36 1.66 1.96 2.24 2.52	2 1 1 1 1 1 1 1
0 10 20 30 40 50 60 70 80 90	julian: GMT 189: 4:49 temperature (degree C) 16.691 16.511 16.261 15.856 13.238 12.760 12.350 11.784 11.220 10.530	33 .406 33 .423 33 .411 33 .458 33 .137 33 .131 33 .157 33 .185 33 .122 33 .177	potential temperature (degree C)  16.691 16.509 16.258 15.851 13.233 12.753 12.342 11.775 11.210 10.519	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596 24.904 24.994 25.094 25.222	WMO code 2  geopotential anomaly (m/s) 2  0. 0.36 0.71 1.05 1.36 1.66 1.96 2.24 2.52 2.78	2 1 1 1 1 1 1 1 1
0 10 20 30 40 50 60 70 80 90	julian: GMT 189: 4:49 temperature (degree C) 16.691 16.511 16.261 15.856 13.238 12.760 12.350 11.784 11.220 10.530 10.849	33 .406 33 .423 33 .411 33 .458 33 .137 33 .131 33 .157 33 .185 33 .122	potential temperature (degree C)  16.691 16.509 16.258 15.851 13.233 12.753 12.342 11.775 11.210	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596 24.904 24.994 25.094 25.222 25.276	WMO code 2  geopotential anomaly (m/s) 2  0. 0.36 0.71 1.05 1.36 1.66 1.96 2.24 2.52 2.78 3.03	2 1 1 1 1 1 1 1 1
0 10 20 30 40 50 60 70 80 90 100 125	julian: GMT 189: 4:49 temperature (degree C) 16.691 16.511 16.261 15.856 13.238 12.760 12.350 11.784 11.220 10.530 10.849 9.784	1atitude  33 29.4 N  salinity  33.406 33.423 33.411 33.458 33.137 33.131 33.157 33.185 33.122 33.177 33.406 33.679	potential temperature (degree C)  16.691 16.509 16.258 15.851 13.233 12.753 12.342 11.775 11.210 10.519 10.837 9.770	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596 24.904 25.222 25.276 25.222 25.276 25.441 25.564 25.959	WMO code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.36 0.71 1.05 1.36 1.66 1.96 2.24 2.52 2.78 3.03 3.60	2 1 1 1 1 1 1 1 1 1
0 10 20 30 40 50 60 70 80 90 100 125 150	julian: GMT 189: 4:49 temperature (degree C) 16.691 16.511 16.261 15.856 13.238 12.760 12.350 11.784 11.220 10.530 10.849 9.784 9.050	latitude  33 29.4 N  salinity  33.406 33.423 33.411 33.458 33.137 33.131 33.157 33.185 33.122 33.177 33.406 33.679 33.824	potential temperature (degree C)  16.691 16.509 16.258 15.851 13.233 12.753 12.342 11.775 11.210 10.519 10.837 9.770 9.034	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596 24.904 25.094 25.094 25.222 25.276 25.441 25.564 25.959 26.192	WMO code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.36 0.71 1.05 1.36 1.66 1.96 2.24 2.52 2.78 3.03 3.60 4.09	2 1 1 1 1 1 1 1 1 1 1
0 10 20 30 40 50 60 70 80 90 100 125 150 175	julian: GMT 189: 4:49 temperature (degree C) 16.691 16.511 16.261 15.856 13.238 12.760 12.350 11.784 11.220 10.530 10.849 9.784 9.050 8.569	latitude  33 29.4 N  salinity  33.406 33.423 33.411 33.458 33.137 33.131 33.157 33.185 33.122 33.177 33.406 33.679 33.824 33.906	potential temperature (degree C)  16.691 16.509 16.258 15.851 13.233 12.753 12.342 11.775 11.210 10.519 10.837 9.770 9.034 8.551	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596 24.904 25.094 25.094 25.222 25.276 25.441 25.564 25.959 26.192 26.332	WMO code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.36 0.71 1.05 1.36 1.66 1.96 2.24 2.52 2.78 3.03 3.60 4.09 4.54	2 1 1 1 1 1 1 1 1 1 1 1
0 10 20 30 40 50 60 70 80 90 100 125 150 175 200	julian: GMT 189: 4:49  temperature (degree C)  16.691 16.511 16.261 15.856 13.238 12.760 12.350 11.784 11.220 10.530 10.849 9.784 9.050 8.569 8.112	latitude  33 29.4 N  salinity  33.406 33.423 33.411 33.458 33.137 33.135 33.122 33.177 33.406 33.679 33.824 33.906 33.965	potential temperature (degree C)  16.691 16.509 16.258 15.851 13.233 12.753 12.342 11.775 11.210 10.519 10.837 9.770 9.034 8.551 8.092	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596 24.904 25.094 25.222 25.276 25.441 25.564 25.959 26.192 26.332 26.448	WMO code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.36 0.71 1.05 1.36 1.66 1.96 2.24 2.52 2.78 3.03 3.60 4.09 4.54 4.96	2 1 1 1 1 1 1 1 1 1 1 1 1 1
0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225	julian: GMT 189: 4:49  temperature (degree C)  16.691 16.511 16.261 15.856 13.238 12.760 12.350 11.784 11.220 10.530 10.849 9.784 9.050 8.569 8.112 7.711	latitude  33 29.4 N  salinity  33.406 33.423 33.411 33.458 33.137 33.135 33.122 33.177 33.406 33.679 33.824 33.906 33.965 33.985	potential temperature (degree C)  16.691 16.509 16.258 15.851 13.233 12.753 12.342 11.775 11.210 10.519 10.837 9.770 9.034 8.551 8.092 7.689	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596 24.904 25.094 25.094 25.222 25.276 25.441 25.564 25.959 26.192 26.332 26.448 26.522	WMO code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.36 0.71 1.05 1.36 1.66 1.96 2.24 2.52 2.78 3.03 3.60 4.09 4.54 4.96 5.35	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
tation  46  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250	julian: GMT 189: 4:49  temperature (degree C)  16.691 16.511 16.261 15.856 13.238 12.760 12.350 11.784 11.220 10.530 10.849 9.784 9.050 8.569 8.112 7.711 7.471	latitude  33 29.4 N  salinity  33.406 33.423 33.411 33.458 33.137 33.135 33.157 33.185 33.122 33.177 33.406 33.679 33.824 33.906 33.965 33.985 34.005	potential temperature (degree C)  16.691 16.509 16.258 15.851 13.233 12.753 12.342 11.775 11.210 10.519 10.837 9.770 9.034 8.551 8.092 7.689 7.447	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596 24.904 25.094 25.094 25.222 25.276 25.441 25.564 25.959 26.192 26.332 26.448 26.522 26.573	WMO code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.36 0.71 1.05 1.36 1.66 1.96 2.24 2.52 2.78 3.03 3.60 4.09 4.54 4.96 5.35 5.74	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
tation  46  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250 300	julian: GMT 189: 4:49  temperature (degree C)  16.691 16.511 16.261 15.856 13.238 12.760 12.350 11.784 11.220 10.530 10.849 9.784 9.050 8.569 8.112 7.711 7.471 6.937	1atitude  33 29.4 N  salinity  33.406 33.423 33.411 33.458 33.137 33.131 33.157 33.185 33.122 33.177 33.406 33.679 33.824 33.906 33.965 33.985 34.005 34.056	potential temperature (degree C) 16.691 16.509 16.258 15.851 13.233 12.753 12.342 11.775 11.210 10.519 10.837 9.770 9.034 8.551 8.092 7.689 7.447 6.909	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596 24.904 25.094 25.094 25.222 25.276 25.441 25.564 25.959 26.192 26.332 26.448 26.522 26.573 26.688	WMO code 2  geopotential anomaly (m/s) <sup>2</sup> 0. 0.36 0.71 1.05 1.36 1.66 1.96 2.24 2.52 2.78 3.03 3.60 4.09 4.54 4.96 5.35 5.74 6.46	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
tation  46  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225 250	julian: GMT 189: 4:49  temperature (degree C)  16.691 16.511 16.261 15.856 13.238 12.760 12.350 11.784 11.220 10.530 10.849 9.784 9.050 8.569 8.112 7.711 7.471	latitude  33 29.4 N  salinity  33.406 33.423 33.411 33.458 33.137 33.135 33.157 33.185 33.122 33.177 33.406 33.679 33.824 33.906 33.965 33.985 34.005	potential temperature (degree C)  16.691 16.509 16.258 15.851 13.233 12.753 12.342 11.775 11.210 10.519 10.837 9.770 9.034 8.551 8.092 7.689 7.447	knots 15 sigma-theta (kg/m <sup>3</sup> ) 24.364 24.419 24.468 24.596 24.904 25.094 25.094 25.222 25.276 25.441 25.564 25.959 26.192 26.332 26.448 26.522 26.573	WMO code 2 geopotential anomaly (m/s) <sup>2</sup> 0. 0.36 0.71 1.05 1.36 1.66 1.96 2.24 2.52 2.78 3.03 3.60 4.09 4.54 4.96 5.35 5.74	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

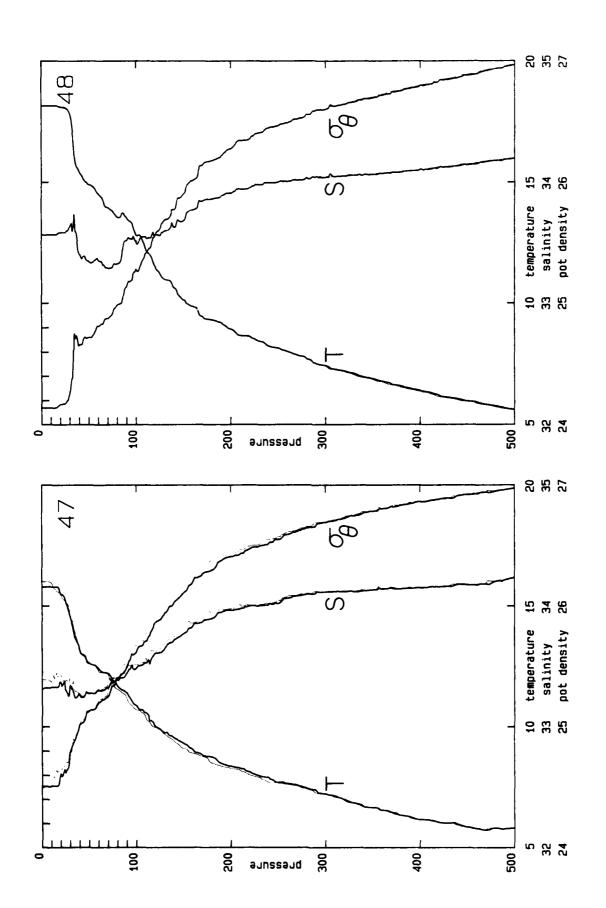


AND BELEVER RECEDED TO THE REPORT OF THE PROPERTY OF THE PROPE

FRONTS I

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
47	189: 8:43	32 56.9 N	121 22.0 W	14	4	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
			temperature	2.	anomaly	
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
	15.784	33.313	15.784	24.500	0.	2
10	15.786	33.329	15.784	24.512	0.34	1
20	15.473	33.365	15.470	24.610	0.69	1
30	14.518	33.341	14.514	24.798	1.02	1
40	13.151	33.265	13.146	25.021	1.32	1
50	12.623	33.278	12.616	25.135	1.61	1
60	12.382	33.308	12.374	25.205	1.90	1
70	12.187	33.326	12.178	25.256	2.17	1
80	11.658	33.385	11.648	25.401	2.44	1
90	11.369	33.453	11.358	25.507	2.69	1
100	10.849	33.493	10.837	25.631	2.94	1
125	9.879	33.611	9.865	25.890	3.50	1
150	9.286	33.772	9.270	26.114	4.01	1
175	8.760	33.887	8.741	26.287	4.47	1
200	8.346	33.963	8.325	26.411	4.89	1
225	8.007	33.999	7.984	26.490	5.30	1
250	7.708	34.024	7.683	26.554	5.69	1
300	7.204	34.115	7.175	26.698	6.41	1
400	6.160	34.151	6,125	26.866	7.73	1
500	5.842	34.240	5.799	26.977	8,92	4

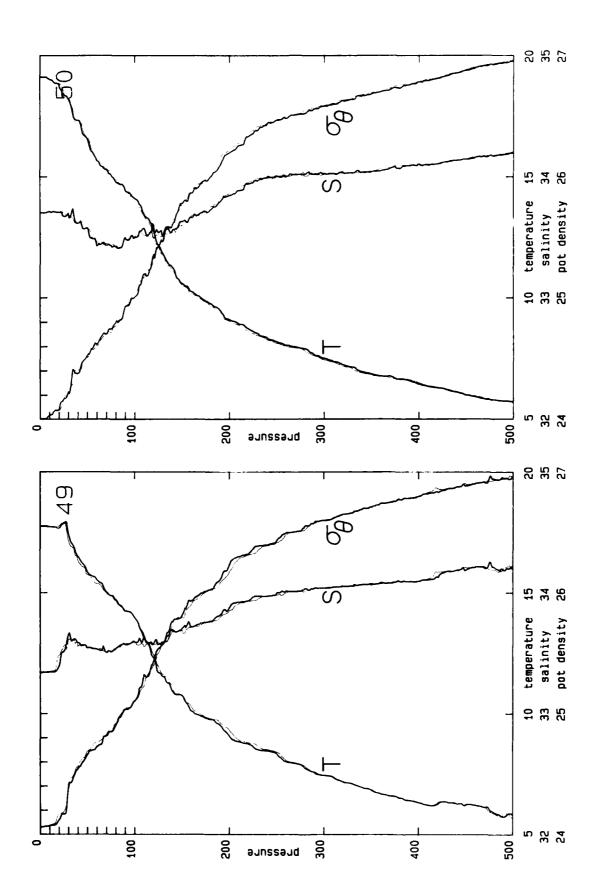
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
48	189:13: 6	32 21.1 N	121 16.4 W	19	2	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	18.144	33.567	18.144	24.141	0.	2
10	18.152	33.564	18.150	24.137	0.38	1
20	18.094	33.587	18.091	24.169	0.76	1
30	17.832	33.632	17.827	24.268	1.13	1
40	15.406	33.389	15.400	24.643	1.47	1
50	14.887	33.343	14.880	24.721	1.80	1
60	14.503	33.351	14.494	24.810	2.12	1
70	13.948	33.290	13.938	24.879	2.43	1
80	13.551	33.328	13.540	24.990	2.74	1
90	13.517	33.523	13.504	25.148	3.03	1
100	12.822	33.494	12.809	25.265	3.31	1
125	11.218	33.561	11.203	25.619	3.95	1
150	10.125	33.686	10.108	25.908	4.52	1
175	9.340	33.857	9.321	26.172	5.01	1
200	8.916	33.910	8.895	26.281	5.47	1
225	8.495	33.981	8.472	26.403	5.90	1
250	8.137	34.006	8.112	26.477	6.31	1
300	7.413	34.045	7.384	26.613	7.08	1
400	6.381	34.100	6.345	26.797	8.47	1
500	5.596	34.196	5.554	26.973	9.70	1



FRONTS I

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
49	189:17:20	31 47.4 N	121 8.1 W	12	1	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
0	17.752	33.339	17.752	24.062	0.	2
10	17.723	33.344	17.721	24.073	0.39	1
20	17.669	33.391	17.666	24.122	0.77	1
30	17.416	33.656	17.411	24.386	1.15	1
40	16.499	33.583	16.493	24.546	1.49	1
50	15.847	33.540	15.839	24.662	1.83	1
60	15.520	33.532	15.511	24.729	2.16	1
70	15.005	33.504	14.994	24.821	2.48	1
80	14.696	33.539	14.684	24.915	2.79	1
90	14.232	33.571	14.219	25.038	3.09	1
100	13.941	33.591	13.927	25.114	3.38	1
125	11.694	33.574	11.678	25.542	4.05	1
150	10.717	33.702	10.699	25.819	4.63	1
175	9.809	33.756	9.789	26.016	5.16	1
200	9.015	33.885	8.993	26.246	5.64	1
225	8.600	33.967	8.576	26.376	6.08	1
250	8.303	34.004	8.277	26.450	6.50	1
300	7.441	34.040	7.412	26.605	7.27	1
400	6.304	34.101	6.268	26.808	8.66	1
500	5.698	34.200	5.655	26.963	9,88	1

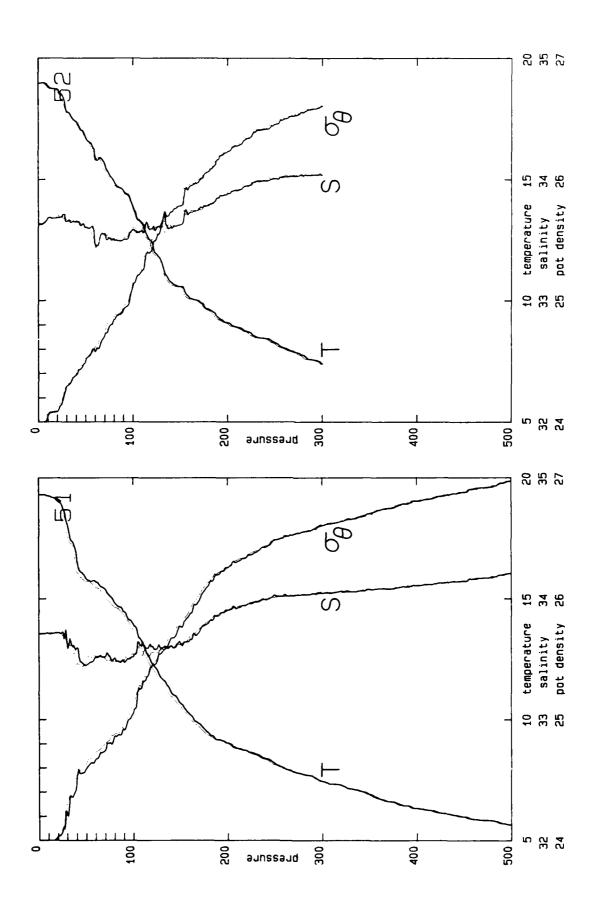
station	date: time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	<del></del>
50	189:22:25	31 12.0 N	121 O. W	13	36	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
0	19.109	33.703	19.109	24.004	0.	3
10	19.018	33.716	19.016	24.037	0.39	3
20	18.824	33.705	18.820	24.078	0.78	3
30	18.200	33.694	18.195	24.225	1.16	1
40	17.316	33.616	17.309	24.380	1.52	1
50	16.547	33.576	16.539	24.530	1.87	1
60	15.671	33.438	15.662	24.623	2.20	1
70	15.294	33.431	15.283	24.701	2.53	1
80	14.787	33.419	14.775	24.803	2.86	1
90	14.434	33.489	14.421	24.932	3.17	1
100	14.087	33.503	14.073	25.016	3.47	1 1 1
125	12.153	33.541	12.137	25.431	4.17	1
150	10.582	33.628	10.564	25.785	4.77	1
175	9.858	33.706	9.838	25.969	5.31	1
200	9.086	33.849	9.064	26.207	5.80	1
225	8.594	33.962	8.570	26.373	6.25	1
250	8.169	34.005	8.143	26.471	6.66	1
300	7.491	34.022	7.462	26.584	7.44	1
400	6.451	34.094	6.415	26.784	8.85	1
500	5.681	34.205	5.638	26.969	10.08	1



		DAR	TO 011
KV	NEW	HUK	IZON

FRONTS I

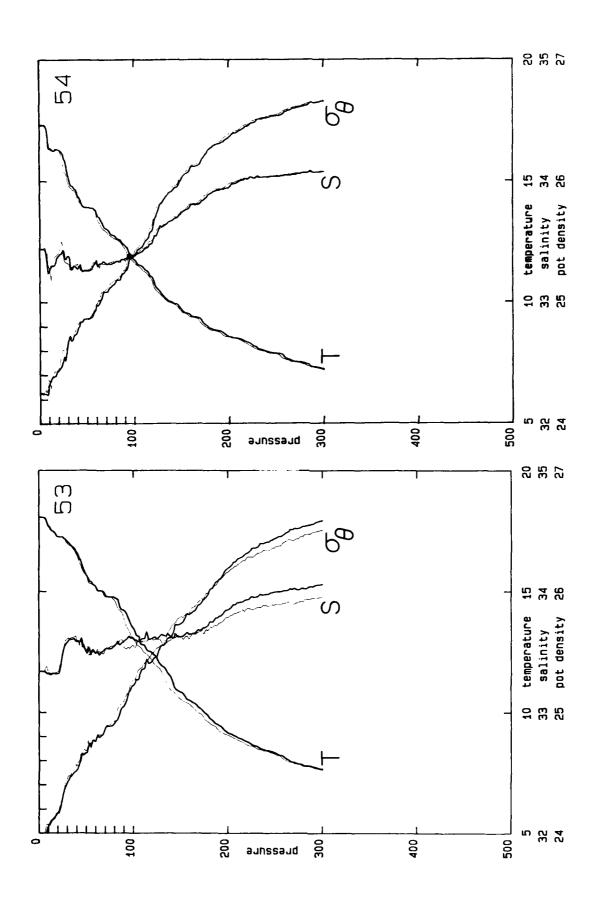
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
51	190: 1:43	31 19.4 N	120 52.7 W	12	36	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	$(k_g/m^3)$	(m/s) <sup>2</sup>	
0	19.312	33.710	19.312	23.957	0.	2
10	19.249	33.713	19.247	23.976	0.40	1
20	19.041	33.721	19.037	24.036	0.79	1
30	18.111	33.645	18.106	24.210	1.17	1
40	16.817	33.592	16.810	24.479	1.53	1
50	15.832	33.453	15.824	24.598	1.87	1
60	15.699	33.514	15.690	24.675	2.20	1
70	15.376	33.519	15.365	24.751	2.53	1
80	14.812	33.508	14.800	24.866	2.85	1
90	14.446	33.474	14.433	24.918	3.16	1
100	13.902	33.541	13.888	25.084	3.46	1
125	12.045	33.586	12.029	25.486	4.13	1
150	10.649	33.622	10.631	25.768	4.72	1.
175	9.574	33.779	9.554	26.073	5.26	1
200	9.010	33.905	8.988	26.263	5.72	1
225	8.613	33.961	8.589	26.369	6.16	1
250	8.125	34.020	8.100	26.490	6.57	1
300	7.424	34.046	7.395	26.613	7.34	1
400	6.315	34.110	6.279	26.814	8.72	1
500	5.642	34.208	5.600	26.977	9.95	1
station	date: time	latitude	longitude	wind speed	wind direction	- <del></del>
00001011	julian: GMT	1411000	longitude	knots	WMO code	
52	190: 3:28	31 28.8 N	120 45.5 W	9	1	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
			temperature		anomaly	
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	18.967	33.629	18.967	23.983	0.	2
10	18.872	33.679	18.870	24.046	0.39	1
20	18.719	33.683	18.715	24.088	0.78	1
30	17.816	33.640	17.811	24.278	1.16	1
40	17.378	33.649	17.371	24.391	1.52	1
50	16.716	33.608	16.708	24.515	1.87	1
60	15.920	33.448	15.911	24.575	2.21	1
70	15.639	33.554	15.628	24.720	2.54	1
80	14.902	33.512	14.890	24.849	2.86	1
90	14.516	33.505	14.503	24.927	3.17	1
100	13.843	33.585	13.829	25.130	3.47	1
125	11.915	33.602	11.899	25.523	4.14	1
150	10.571	33.627	10.553	25.786	4.72	1
175	9.723	33.795	9.703	26.061	5.24	1
200	9.078	33.885	9.056	26.236	5.72	1
225	8.595	33.964	8.571	26.374	6.16	1
250	8.247	34.007	8.221	26.461	6.58	1
300	7.384	34.042	7.355	26.615	7.35	1



NOTICE SECRETARY CONTROL CONTROL SECRETARY

RV	NEW	HORIZON
_		

RV NEW HO	ORIZON	FRONT			
station 53	date:time julian: GMT 190: 4:44	1atitude 31 35.5 N	1ongitude 120 39.6 W	wind speed knots 11	wind direction WMO code
depth	temperature	salinity	potential	sigma-theta	geopotential
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>
0	18.058	33.337	18.058	23.986	0.
10	17.707	33.319	17.705	24.057	0.39
20	17.260	33.319	17.257	24.165	0.77
30	17.046	33.578	17.041	24.414	1.14 1.49
40	16.589	33.585	16.583	24.527 24.668	1.82
50 60	15.674 15.192	33.497 33.485	15.666 15.183	24.765	2.15
70	14.848	33.525	14.838	24.703	2.46
80	14.741	33.554	14.729	24.917	2.77
90	14.207	33.589	14.194	25.057	3.07
100	13.464	33.605	13.450	25.223	3.36
125	12.183	33,608	12.167	25.477	4.02
150	10.832	33.622	10.814	25.736	4.62
175	9.971	33.703	9.951	25.948	5.16
200	9.140	33.854	9.118	26.202	5.66
225	8.640	33.956	8.616	26.361	6.10
250 300	8.294 7.622	33.999 34.062	8.268 7.592	26.448 26.597	6.52 7.30
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind directi
54	190: 6: 2	31 43.2 N	120 33.2 W	9	1
depth	temperature	salinity	potential	sigma-theta	geopotentia anomaly
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	$(m/s)^2$
0	17.309	33.440	17.309	24.245	0.
10	16.416	33.255	16.414	24.312	0.37
20	16.288	33.383	16.285	24.440	0.72
30	15.218	33.382	15.213	24.679 24.775	1.07 1.39
40 50	14.379 13.901	33.272 33.257	14.373 13.894	24.863	1.70
60	13.620	33.337	13.612	24.983	2.01
70	13.021	33.316	13.011	25.087	2.31
80	12.673	33.339	12.662	25.173	2.59
90	12.313	33.363	12.301	25.261	2.87
100	11.746	33.388	11.733	25.388	3.14
125	10.514	33.597	10.499	25.771	3.76
150	9.651	33.745	9.634	26.033	4.29
175	9.039	33.863	9.020	26.225	4.77
200	8.564	33.955	8.543	26.372	5.21
225	8.174	34.022	8.151	26.484	5.62
250 300	7.869 7.216	34.037 34.074	7.844 7.187	26.541 26.664	6.01 6.74
			, , ,		



RV NEW BO	DRIZON	FRONT	rs I			
station	date: time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
55	190: 7:31	31 50.1 N	120 27.5 W	11	3	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	17.842	33.508	17.842	24.169	0.	2
10	17.364	33.627	17.362	24.376	0.37	1
20	16.853	33.554	16.850	24.441	0.72	1
30	15.452	33.414	15.447	24.652	1.07	1
40	14.202	33.585	14.196	25.053	1.38	1
50	12.889	33.324	12.882	25.119	1.68	1
60	12.687	33.366	12.679	25.191	1.96	1
70	12.203	33.334	12.194	25.259	2.24	1
80	11.998	33.455	11.988	25.392	2.50	ī
90	11.334	33.442	11.323	25.505	2.76	ī
100	11.016	33.487	11.004	25.597	3.01	î
125	10.402	33.701	10.387	25.872	3.58	i
150	9.352	33.783	9.335	26.112	4.09	î
175	8.954	33.884		26.255	4.55	1
			8.935			i
200	8.414	33.983	8.393	26.417	4.98	
225	8.036	34.017	8.013	26.500	5.39	1
250	7.825	34.031	7.800	26.543	5.78	1
300	7.160	34.069	7.132	26.667	6.52	4
station	date: time	latitude	longitude	wind speed	wind direction	<del></del>
56	julian: GMT 190: 8:46	31 57.2 N	120 22.0 W	knots 12	WMO code 4	
depth	temperature	salinity	potential	sigma-theta	geopotential	fla
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
	17.907	33.467	17.907	24.122	0.	2
10	17.116	33.499	17.114	24.336	0.37	1
20	16.897	33.478	16.894	24.372	0.73	1
30	15.647	33.532	15.642	24.700	1.07	1
40	14.342	33.542	14.336	24.991	1.39	1
50	12.987	33.496	12.980	25.232	1.67	1
60	12.662	33.549	12.654	25.338	1.94	1
70	12.003	33.674	11.994	25.561	2.20	ī
80	11.332	33.619	11.322	25.643	2.43	ī
90	10.866	33.637	10.855	25.740	2.67	ī
100	10.000	22.650	10.655	25.770	2.07	•

10.446

9.559

8.969

8.479

8.087

7.793

7.512

6.963

25.829

26.058

26.245

26.392

26.491

26.541

26.592

26.700

2.89

3.41

3.88

4.31

4.72

5.11

5.49

6.21

1

90 100

125

150

175

200

225

250

300

10.458

9.573

8.985

8.497

8.107

7.815

7.536

6.991

33.659

33.761

33.878

33.968

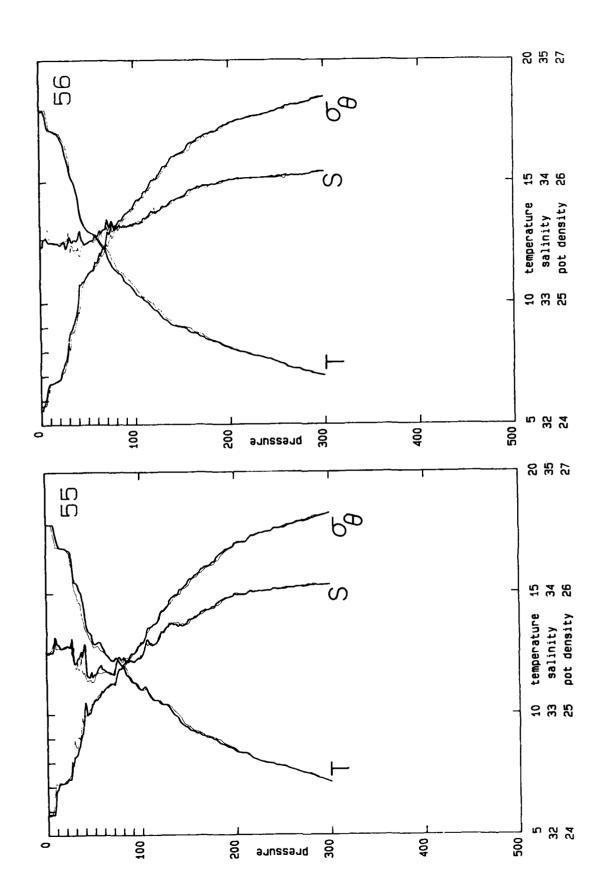
34.019

34.028

34.041

34.081

REASON COLORED SESSION PROTECTOR VINITARIA RELECTION WAS SELL RESIDENT PROFESSION RESIDENT NEWSFILM RESIDENT NEWSFI



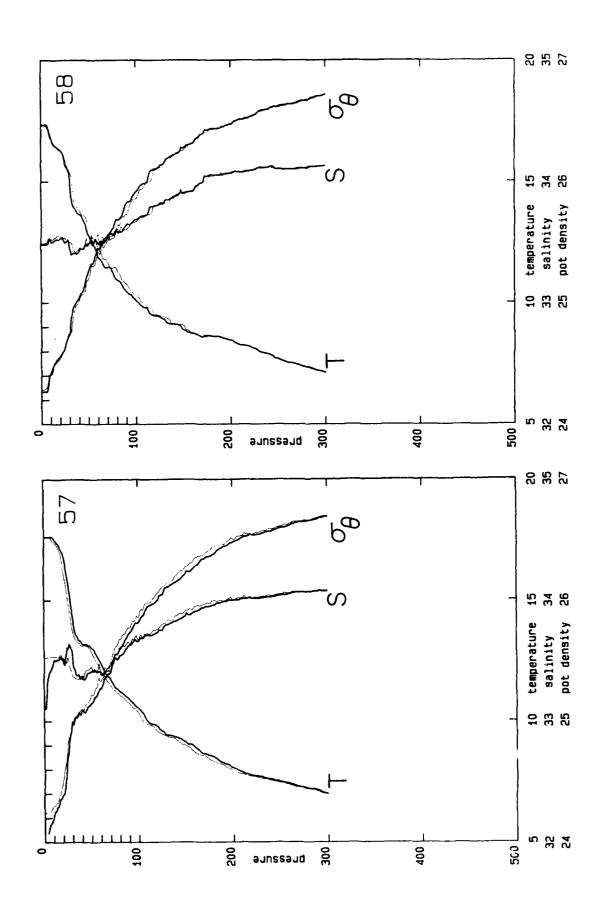
AND SECURE OF THE PROPERTY OF

DU	NEW	HOR	17	ΛN
	T.L.	HVE	14	UIT

FRONTS I

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
57	190:10:12	32 4.5 N	120 16.0 W	12	3	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	17.623	33.106	17.623	23.914	0.	2
10	17.575	33.491	17.573	24.221	0.38	1
20	16.916	33.511	16.913	24.393	0.75	1
30	14.403	33.563	14.399	24.994	1.07	1
40	13,241	33.375	13.236	25.088	1.37	1
50	13.056	33.405	13.049	25.148	1.65	1
60	12.379	33.400	12.371	25.277	1.93	1
70	11.759	33.421	11.750	25.410	2.20	1
80	11.225	33.542	11.215	25.602	2.44	1
90	10.895	33.630	10.884	25.730	2.68	1
100	10.522	33.664	10.510	25.822	2.90	1
125	9.579	33.754	9.565	26.052	3.42	1
150	9.096	33.880	9.080	26.229	3.90	1
175	8.565	33.951	8.547	26.368	4.33	1
200	8.033	34.001	8.013	26,488	4.74	1
225	7.705	34.013	7.683	26.545	5.13	1
250	7.463	34.040	7.439	26.602	5.50	1
300	6.977	34.077	6.949	26.699	6.22	1

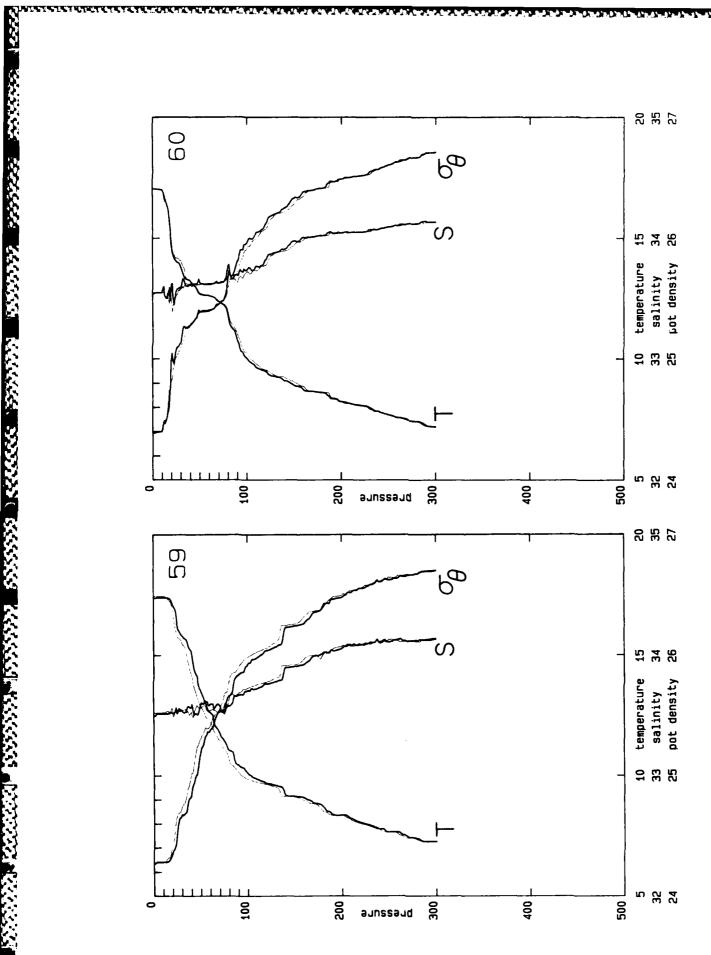
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
58	190:11:41	32 12.8 N	120 9.2 W	13	1	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s)2	
0	17.347	33.481	17.347	24.268	0.	2
10	16.844	33.518	16.842	24.415	0.36	1
20	16.293	33.528	16.290	24.550	0.71	1
30	15.240	33.476	15.235	24.747	1.04	1
40	13.649	33.423	13.643	25.042	1.34	1
50	12.781	33.484	12.774	25.264	1.62	1
60	11.902	33.490	11.894	25.437	1.89	1
70	11.465	33.541	11.456	25.557	2.14	1
80	10.937	33.585	10.927	25.687	2.38	1
90	10.428	33.649	10.417	25.826	2.60	1
100	10.062	33.689	10.051	25.920	2.82	1
125	9.415	33.821	9.401	26.131	3.32	1
150	8.866	33.900	8.850	26.281	3.78	1
175	8.662	34.048	8,644	26.429	4.20	1
200	8.450	34.068	8.429	26.478	4.61	1
225	8.097	34.098	8.074	26.555	5.00	1
250	7.681	34.099	7.656	26.617	5.37	1
300	7.102	34.131	7.074	26.724	6.08	4



ACCOUNT TO SECURE TO THE PROPERTY OF THE PROPE

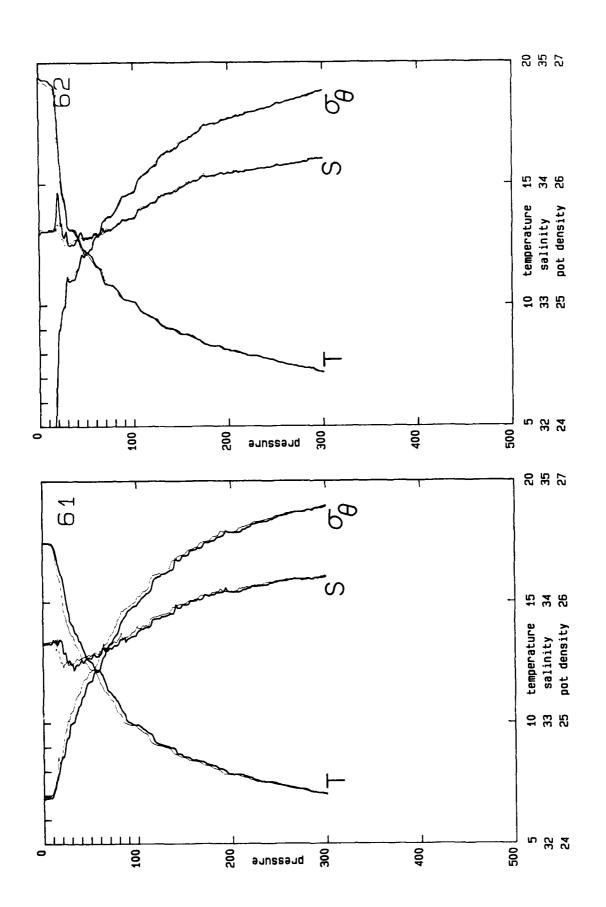
FRONTS I

RV NEW HO	DRIZON	FRON	rs i		
station	date: time julian: GMT	latitude	longitude	wind speed knots	wind direction
59	190:13:17	32 20.6 N	120 2.9 W	2	9
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	$(m/s)^2$
0	17.377	33.496	17.377	24.272	0.
10	17.393	33.514	17.391	24.282	0.37
20	17.101	33.513	17.098	24.351	0.73
30	15.799	33.547	15.794	24.677	1.07
40	15.134	33.566	15.128	24.839	1.39
50	13.515	33.590	13.508	25.199	1.69
60	12.605	33.592	12.597	25.382	1.96
70	11.726	33.578	11.717	25.538	2.21
80	11.039	33.576	11.029	25.662	2.45
90 100	10.427	33.667	10.416	25.840	2.68
125	10.073	33.712	10.062	25.936	2.89
150	9.628 9.127	33.769	9.614	26.055	3.40
175		33.907	9.111	26.245	3.87
200	8,806	33.998	8.787	26.367	4.31
225	8.355	34.061	8.334	26.487	4.72
250	7.958	34.092	7.935	26.570	5.10
300	7.664 7.255	34.109 34.139	7.639	26.627	5.47 6.18
300	7.233	34.139	7.226	26.709	0.18
station	date: time	latitude	longitude	wind speed	wind directi
60	julian: GMT 190:15: 0	32 31.4 N	119 53.7 W	knots 8	WMO code 2
depth	temperature	salinity	potential temperature	sigma-theta	geopotentia anomaly
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>
0	17.034	33.542	17.034	24.388	0.
10	17.010	33.548	17.008	24.399	0.35
20	14.792	33.551	14.789	24.901	0.69
30	13.785	33.592	13.781	25.145	0.98
40	13.208	33.621	13.203	25.285	1.26
50	12.697	33.625	12.690	25.389	1.52
60 30	12.618	33.619	12.610	25.400	1.78
70	12.366	33.626	12.357	25.455	2.04
80	11.696	33.778	11.686	25.699	2.29
90	10.689	33.680	10.678	25.805	2.52
100	10.011	33.741	10.000	25.969	2.73
125	9.304	33.866	9.290	26.184	3.22
150	8.884	33.979	8.868	26.340	3.67
175	8.620	34.021	8.602	26.414	4.09
200	8.227	34.045	8.207	26.493	4.49
225	8.043	34.054	8.020 7.660	26.528 26.611	4.88
250	7.685	34.093			5.26

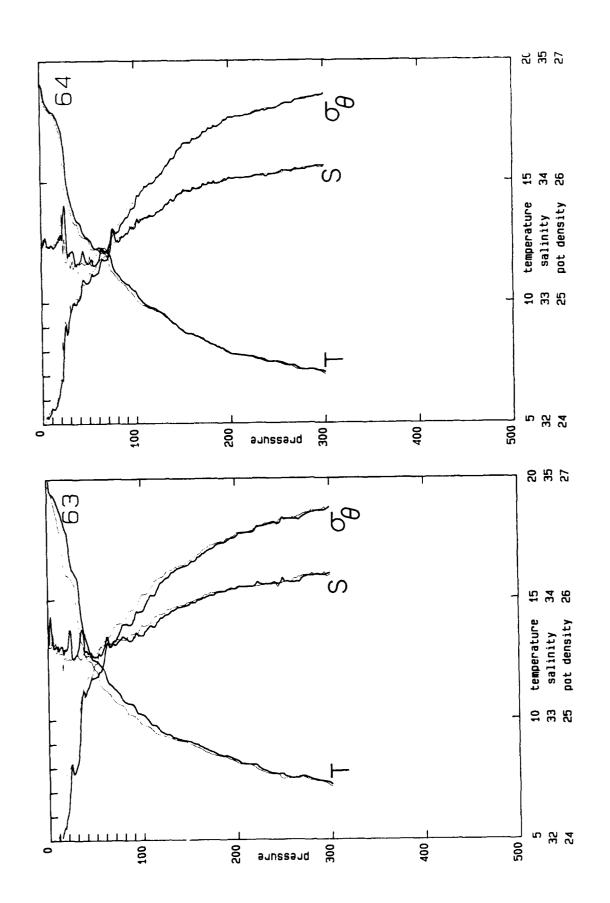


FRONTS I

AT	V#12011	I ROIV	10 1			
station	date: time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
61	190:18:30	32 16.4 N	119 49.9 W	11	3	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	17.450	33.651	17.450	24.373	0.	2
10	17.381	33.661	17.379	24.398	0.36	1
20	16.065	33.674	16.062	24.715	0.69	1
30	14.094	33.480	14.090	24.995	1.01	1
40	13.337	33.506	13.331	25.170	1.30	1
50	12.563	33.535	12.556	25.346	1.57	1
60	12.179	33.568	12.171	25.445	1.83	1
70	11.300	33.618	11.291	25.647	2.07	1
80	10.796	33.655	10.786	25.767	2.30	1
90	10.046	33.696	10.036	25.928	2.52	1
100	9,923	33.747	9.912	25.989	2.72	1
125	9.074	33.879	9.061	26.231	3.20	1
150	8.582	33.976	8.566	26.384	3.64	1
175	8.248	34.046	8.230	26.490	4.05	1
200	7.861	34.080	7.841	26.575	4.43	1
225	7.603	34.127	7.581	26.650	4.80	1
250	7.414	34.172	7.390	26.712	5.15	1
300	7.001	34.210	6.973	26.800	5.82	1
station	date: time	latitude	longitude	wind speed	wind direction	
62	julian: GMT 190:21: 3	31 59.8 N	119 46.8 W	knots 4	WMO code 14	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
		•	temperature		anomaly	
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	19.396	33.587	19.396	23.842	0.	2
10	19.259	33.614	19.257	23.898	0.40	1
20	17.061	33.939	17.058	24.687	0.79	1
30	13.241	33.550	13.237	25.223	1.09	1
40	12.931	33.539	12.926	25.276	1.37	1
50	12.199	33.554	12.192	25.430	1.63	1
60	11.641	33.597	11.633	25.568	1.88	1
70	10.863	33.614	10.855	25.723	2.11	1
80	10.702	33.646	10.692	25.776	2.34	1
90	10.224	33.698	10.214	25.900	2.56	1
100	10.130	33.719	10.118	25.932	2.77	1
125	9.363	33.872	9.349	26.179	3.26	1
150	8.807	33.970	8.791	26.345	3.70	1
175	8.366	34.060	8.348	26.484	4.12	1
200	8.102	34.087	8.082	26.545	4.51	1
225	7.895	34.113	7.872	26.596	4.88	1
250	7.633	34.156	7.608	26.668	5.25	1
300	7.185	34.203	7.156	26.770	5.93	1



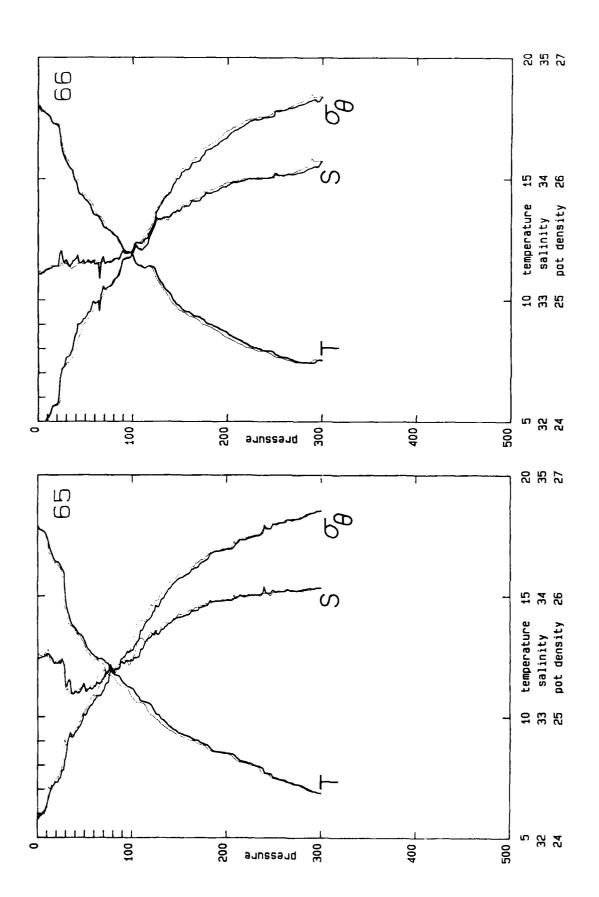
Station   date:time   policy   potential   signs—theta   geopotential   flag	KA NEM HO	1K 1 7 1 W		<b>-</b> -			
	a+a+i.a=	data : time	FRON	rs I			
depth   temperature   salinity   potential   temperature   (degree C)   (kg/m <sup>3</sup> )     signa-theta   geopotential   anomaly   (m/s) <sup>2</sup>		Julian: GMI			wind speed knots	wind direction WMO code	
(m) (degree C) (temperature (tempera	63	190:23: 5	31 43.3 N	119 42.9 W	2	11	
(m) (degree C) (degree C) (kg/m <sup>3</sup> ) (m/s) <sup>2</sup> 0 20.262 33.635 20.262 23.653 0. 2 10 19.013 33.605 19.011 23.953 0.40 1 20 17.821 33.580 17.818 24.230 0.79 1 30 15.989 33.540 15.984 24.629 1.13 1 50 12.461 33.524 12.454 25.357 1.69 1 60 12.001 33.615 11.993 25.515 1.95 1 70 11.282 33.624 11.273 25.655 2.19 1 80 10.777 33.693 10.767 25.799 2.42 1 90 10.616 33.678 10.605 25.816 2.64 1 100 10.203 33.698 10.191 25.903 2.85 1 125 9.382 33.870 9.368 26.175 3.35 1 155 9.068 33.955 9.052 26.292 3.80 1 175 8.613 34.031 8.595 26.423 4.23 1 220 8.262 34.089 8.241 26.522 4.62 1 225 7.894 34.127 7.871 26.608 5.00 1 225 7.894 34.127 7.871 26.608 5.00 1 225 7.894 34.127 7.871 26.608 5.00 1 225 7.894 34.127 7.871 26.608 5.00 1 225 7.613 34.153 7.588 26.669 5.36 1 300 7.224 34.197 7.195 26.759 6.06 1  station date: time latitude longitude wind speed kinot direction wind code latitude (degree C) (kg/m <sup>3</sup> ) (m/s) <sup>2</sup> 0 19.053 33.467 19.053 23.838 0. 2 10 17.942 33.483 17.940 24.126 0.39 1 20 17.310 33.533 17.907 24.340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 20 17.310 33.563 17.307 24.340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 30 12.636 33.322 13.316 25.031 1.39 1 40 13.322 33.321 12.667 25.249 1.95 1 50 12.066 33.441 12.057 25.368 2.22 1 80 11.191 33.511 11.181 25.584 2.247 1	depth	temperature	salinity	•	sigma-theta		flag
10 19.013 33.605 19.011 23.953 0.40 1 20 17.821 33.580 17.818 24.230 0.79 1 30 15.989 33.540 15.984 24.629 1.13 1 40 13.324 33.570 13.318 25.222 1.42 1 50 12.461 33.524 12.454 25.357 1.69 1 60 12.001 33.615 11.993 25.515 1.95 1 70 11.282 33.624 11.273 25.655 2.19 1 80 10.777 33.693 10.767 25.799 2.42 1 90 10.616 33.678 10.605 25.816 2.64 1 100 10.203 33.698 10.191 25.903 2.85 1 125 9.382 33.870 9.368 26.175 3.35 1 150 9.068 33.955 9.052 26.292 3.80 1 175 8.613 34.031 8.595 26.423 4.23 1 200 8.262 34.089 8.241 26.522 4.62 1 225 7.894 34.127 7.871 26.608 5.00 1 250 7.613 34.153 7.588 26.669 5.36 1 300 7.224 34.197 7.195 26.759 6.06 1   station date: time latitude longitude wind speed wind direction knots WMO code  (m) (degree C) (kg/m <sup>3</sup> ) (m/s) <sup>2</sup> 0 19.053 33.467 19.053 23.838 0. 2 10 17.942 33.483 17.940 24.126 0.39 1 20 17.310 33.563 17.307 24.3340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 20 17.910 33.563 17.307 24.3340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 30 17.922 33.322 13.316 25.031 1.39 1 30 14.357 33.409 14.353 24.885 1.09 1 30 12.636 33.325 12.629 25.169 1.68 1 60 12.275 33.339 12.267 25.269 1.95 1 60 12.206 33.441 12.057 25.368 2.22 1 80 11.191 33.511 11.181 25.584 2.47 1	(m)	(degree C)			(kg/m <sup>3</sup> )		
10 19.013 33.605 19.011 23.953 0.40 1 20 17.821 33.580 17.818 24.230 0.79 1 30 15.989 33.540 15.984 24.629 1.13 1 40 13.324 33.570 13.318 25.222 1.42 1 50 12.461 33.524 12.454 25.357 1.69 1 60 12.001 33.615 11.993 25.515 1.95 1 70 11.282 33.624 11.273 25.655 2.19 1 80 10.777 33.693 10.767 25.799 2.42 1 90 10.616 33.678 10.605 25.816 2.64 1 100 10.203 33.698 10.191 25.903 2.85 1 125 9.382 33.870 9.368 26.175 3.35 1 150 9.068 33.955 9.052 26.292 3.80 1 175 8.613 34.031 8.595 26.423 4.23 1 200 8.262 34.089 8.241 26.522 4.62 1 225 7.894 34.127 7.871 26.608 5.00 1 225 7.613 34.153 7.588 26.608 5.00 1 225 7.613 34.153 7.588 26.669 5.36 1 300 7.224 34.197 7.195 26.759 6.06 1   station date:time latitude longitude wind speed knots wMMO code (m) (degree C) (kg/m³) (m/s) <sup>2</sup> depth temperature salinity potential sigma-theta geopotential flag anomaly (m/s) <sup>2</sup> 0 19.053 33.467 19.053 23.838 0. 2 10 17.942 33.483 17.940 24.126 0.39 1 20 17.310 33.563 17.307 24.340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 30 14.357 33.409 14.353 24.885 1.09 1 30 14.357 33.409 14.353 24.885 1.09 1 30 14.357 33.3409 14.353 24.885 1.09 1 30 12.636 33.325 17.307 24.340 0.77 1 30 14.256 33.322 13.316 25.031 1.39 1 50 12.636 33.325 12.629 25.169 1.68 1 50 12.636 33.325 12.629 25.169 1.68 1 50 12.636 33.339 12.267 25.249 1.95 1 50 12.066 33.441 12.057 25.368 2.22 1 80 11.191 33.5511 11.181 25.584 2.47 1	0	20.262	33.635	20,262	23.653	0.	2
30							
40 13.324 33.570 13.318 25.222 1.42 1 50 12.461 33.524 12.454 25.357 1.69 1 60 12.001 33.615 11.993 25.515 1.95 1 70 11.282 33.624 11.273 25.655 2.19 1 80 10.777 33.693 10.767 25.799 2.42 1 90 10.616 33.678 10.605 25.816 2.64 1 100 10.203 33.698 10.191 25.903 2.85 1 125 9.382 33.870 9.368 26.175 3.35 1 125 9.382 33.870 9.368 26.175 3.35 1 150 9.068 33.955 9.052 26.292 3.80 1 175 8.613 34.031 8.595 26.423 4.23 1 200 8.262 34.089 8.241 26.522 4.62 1 225 7.894 34.127 7.871 26.608 5.00 1 250 7.613 34.153 7.588 26.669 5.36 1 300 7.224 34.197 7.195 26.759 6.06 1   station date: time pulian: GMT (degree C) (kg/m³) (m/s) <sup>2</sup> 0 19.053 33.467 19.053 23.838 0. 2 0 19.053 33.467 19.053 23.838 0. 2 10 17.942 33.483 17.940 24.126 0.39 1 20 17.310 33.563 17.307 24.340 0.77 1 30 14.357 33.409 14.353 23.838 1.09 1 20 17.310 33.563 17.307 24.340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 40 13.322 33.322 13.316 25.031 1.39 1 40 13.322 33.322 13.316 25.031 1.39 1 50 12.636 33.341 12.057 25.368 2.22 1 80 11.191 33.511 11.181 25.584 2.47 1							1
50 12.461 33.524 12.454 25.357 1.69 1 60 12.001 33.615 11.993 25.515 1.95 1 70 11.282 33.624 11.273 25.655 2.19 1 80 10.777 33.693 10.767 25.799 2.42 1 90 10.616 33.678 10.605 25.816 2.64 1 100 10.203 33.698 10.191 25.903 2.85 1 125 9.382 33.870 9.368 26.175 3.35 1 150 9.068 33.955 9.052 26.292 3.80 1 175 8.613 34.031 8.595 26.423 4.23 1 200 8.262 34.089 8.241 26.522 4.62 1 225 7.894 34.127 7.871 26.608 5.00 1 225 7.894 34.127 7.871 26.608 5.00 1 225 7.613 34.153 7.588 26.669 5.36 1 300 7.224 34.197 7.195 26.759 6.06 1   station date: time julian: GMT (degree C) (kg/m <sup>3</sup> ) (m/s) <sup>2</sup> 0 19.053 33.467 19.053 23.838 0. 2 10 17.942 33.483 17.940 24.126 0.39 1 20 17.310 33.563 17.307 24.340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 30 12.636 33.322 13.316 25.031 1.39 1 40 13.322 33.322 13.316 25.031 1.39 1 50 12.636 33.341 12.057 25.368 2.22 1 80 11.191 33.511 11.181 25.584 2.47 1					-		-
60 12.001 33.615 11.993 25.515 1.95 1 70 11.282 33.624 11.273 25.655 2.19 1 80 10.777 33.693 10.767 25.799 2.42 1 90 10.616 33.678 10.605 25.816 2.64 1 100 10.203 33.698 10.191 25.903 2.85 1 125 9.382 33.870 9.368 26.175 3.35 1 150 9.068 33.955 9.052 26.292 3.80 1 175 8.613 34.031 8.595 26.423 4.23 1 200 8.262 34.089 8.241 26.522 4.62 1 225 7.894 34.127 7.871 26.608 5.00 1 2250 7.613 34.153 7.588 26.669 5.36 1 300 7.224 34.197 7.195 26.759 6.06 1   station date: time julian: GMT 64 191: 0:35 31 35.6 N 119 48.8 W 1 26  depth temperature salinity potential temperature (degree C) (kg/m³) (m/s) <sup>2</sup> 0 19.053 33.467 19.053 23.838 0. 2 10 17.942 33.483 17.940 24.126 0.39 1 20 17.310 33.563 17.307 24.340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 20 17.310 33.563 17.307 24.340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 40 13.322 33.325 12.629 25.169 1.68 1 50 12.636 33.325 12.629 25.169 1.68 1 50 12.636 33.341 12.057 25.368 2.22 1 50 12.636 33.341 12.057 25.368 2.22 1 50 12.636 33.341 12.057 25.368 2.22 1 50 12.636 33.441 12.057 25.368 2.22 1 50 12.666 33.441 12.057 25.368 2.22 1 50 11.191 33.511 11.181 25.584 2.47 1							_
70							_
80 10.777 33.693 10.767 25.799 2.42 1 90 10.616 33.678 10.605 25.816 2.64 1 100 10.203 33.698 10.191 25.903 2.85 1 125 9.382 33.870 9.368 26.175 3.35 1 150 9.068 33.955 9.052 26.292 3.80 1 175 8.613 34.031 8.595 26.423 4.23 1 200 8.262 34.089 8.241 26.522 4.62 1 225 7.894 34.127 7.871 26.608 5.00 1 250 7.613 34.153 7.588 26.669 5.36 1 300 7.224 34.197 7.195 26.759 6.06 1   station date:time latitude longitude wind speed wind direction knots who code 1 4 191: 0:35 31 35.6 N 119 48.8 w 1 26  depth temperature salinity potential sigma—theta geopotential flag anomaly (degree C) (kg/m <sup>3</sup> ) (m/s) <sup>2</sup> 0 19.053 33.467 19.053 23.838 0. 2 10 17.942 33.483 17.940 24.126 0.39 1 20 17.310 33.563 17.307 24.340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 40 13.322 33.322 13.316 25.031 1.39 1 50 12.636 33.325 12.629 25.169 1.68 1 50 12.636 33.441 12.057 25.368 2.22 1 80 11.191 33.511 11.181 25.584 2.47 1							_
90 10.616 33.678 10.605 25.816 2.64 1 100 10.203 33.698 10.191 25.903 2.85 1 125 9.382 33.870 9.368 26.175 3.35 1 150 9.068 33.955 9.052 26.292 3.80 1 175 8.613 34.031 8.595 26.423 4.23 1 200 8.262 34.089 8.241 26.522 4.62 1 225 7.894 34.127 7.871 26.608 5.00 1 250 7.613 34.153 7.588 26.669 5.36 1 300 7.224 34.197 7.195 26.759 6.06 1   station date: time julian: GMT knots WMO code julian: GMT camperature (degree C) (kg/m³) (m/s)²  (m) (degree C) (kg/m³) (m/s)²  0 19.053 33.467 19.053 23.838 0. 2 10 17.942 33.483 17.940 24.126 0.39 1 20 17.310 33.563 17.307 24.340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 30 12.636 33.322 13.316 25.031 1.39 1 50 12.636 33.325 12.629 25.169 1.68 1 60 12.275 33.339 12.267 25.249 1.95 1 70 12.066 33.441 12.057 25.584 2.47 1							
125 9.382 33.870 9.368 26.175 3.35 1 150 9.068 33.955 9.052 26.292 3.80 1 175 8.613 34.031 8.595 26.423 4.23 1 200 8.262 34.089 8.241 26.522 4.62 1 225 7.894 34.127 7.871 26.608 5.00 1 250 7.613 34.153 7.588 26.669 5.36 1 300 7.224 34.197 7.195 26.759 6.06 1   station date: time julian: GMT knots WMO code julian: GMT knots wmo code lemperature (degree C) (kg/m³) (m/s)  depth temperature salinity potential signa-theta geopotential flag anomaly (m/s)  0 19.053 33.467 19.053 23.838 0. 2 10 17.942 33.483 17.940 24.126 0.39 1 20 17.310 33.563 17.307 24.340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 30 13.322 33.322 13.316 25.031 1.39 1 40 13.322 33.322 13.316 25.031 1.39 1 50 12.636 33.325 12.629 25.169 1.68 1 60 12.275 33.339 12.267 25.249 1.95 1 70 12.066 33.441 12.057 25.368 2.22 1 80 11.191 33.511 11.181 25.584 2.47 1			33.678				
150						2.85	1
175  8.613  34.031  8.595  26.423  4.23  1 200  8.262  34.089  8.241  26.522  4.62  1 225  7.894  34.127  7.871  26.608  5.00  1 250  7.613  34.153  7.588  26.669  5.36  1 300  7.224  34.197  7.195  26.759  6.06  1   station date:time julian: GMT							1
200 8.262 34.089 8.241 26.522 4.62 1 225 7.894 34.127 7.871 26.608 5.00 1 250 7.613 34.153 7.588 26.669 5.36 1 300 7.224 34.197 7.195 26.759 6.06 1   station date:time julian: GMT							<del>-</del>
225 7.894 34.127 7.871 26.608 5.00 1 250 7.613 34.153 7.588 26.669 5.36 1 300 7.224 34.197 7.195 26.759 6.06 1   station date: time julian: GMT 64 191: 0:35 31 35.6 N 119 48.8 W 1 26  depth temperature salinity potential sigma-theta geopotential flag temperature (degree C) (kg/m³) (m/s)²  0 19.053 33.467 19.053 23.838 0. 2 10 17.942 33.483 17.940 24.126 0.39 1 20 17.310 33.563 17.307 24.340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 30 14.357 33.409 14.353 24.885 1.09 1 40 13.322 33.322 13.316 25.031 1.39 1 50 12.636 33.325 12.629 25.169 1.68 1 60 12.275 33.339 12.267 25.249 1.95 1 70 12.066 33.441 12.057 25.268 2.22 1 80 11.191 33.511 11.181 25.584 2.47 1							
250 7.613 34.153 7.588 26.669 5.36 1 300 7.224 34.197 7.195 26.759 6.06 1  station date:time julian: GMT 64 191: 0:35 31 35.6 N 119 48.8 W 1 26  depth temperature salinity potential temperature (degree C) (kg/m³) (m/s)²  0 19.053 33.467 19.053 23.838 0. 2 10 17.942 33.483 17.940 24.126 0.39 1 20 17.310 33.563 17.307 24.340 0.77 1 30 14.357 33.409 14.353 24.885 1.09 1 30 13.322 33.322 13.316 25.031 1.39 1 50 12.636 33.325 12.629 25.169 1.688 1 50 12.636 33.325 12.629 25.169 1.688 1 60 12.275 33.339 12.267 25.249 1.95 1 70 12.066 33.441 12.057 25.368 2.22 1 80 11.191 33.511 11.181 25.584 2.47 1							
300       7.224       34.197       7.195       26.759       6.06       1         station       date: time julian: GMT       latitude       longitude       wind speed wind direction who code         the table in the person of the pers							_
julian: GMT	300	7.224					
depth         temperature         salinity         potential temperature (degree C)         sigma-theta sanomaly (m/s) <sup>2</sup> geopotential anomaly (m/s) <sup>2</sup> 0         19.053         33.467         19.053         23.838         0.         2           10         17.942         33.483         17.940         24.126         0.39         1           20         17.310         33.563         17.307         24.340         0.77         1           30         14.357         33.409         14.353         24.885         1.09         1           40         13.322         33.322         13.316         25.031         1.39         1           50         12.636         33.325         12.629         25.169         1.68         1           60         12.275         33.339         12.267         25.249         1.95         1           70         12.066         33.441         12.057         25.368         2.22         1           80         11.191         33.511         11.181         25.584         2.47         1		julian: GMT		•			
(m)     (degree C)     temperature (degree C)     (kg/m³)     anomaly (m/s)²       0     19.053     33.467     19.053     23.838     0.     2       10     17.942     33.483     17.940     24.126     0.39     1       20     17.310     33.563     17.307     24.340     0.77     1       30     14.357     33.409     14.353     24.885     1.09     1       40     13.322     33.322     13.316     25.031     1.39     1       50     12.636     33.325     12.629     25.169     1.68     1       60     12.275     33.339     12.267     25.249     1.95     1       70     12.066     33.441     12.057     25.368     2.22     1       80     11.191     33.511     11.181     25.584     2.47     1	64	191: 0:35	31 35.6 N	119 48.8 W	1	26	
0       19.053       33.467       19.053       23.838       0.       2         10       17.942       33.483       17.940       24.126       0.39       1         20       17.310       33.563       17.307       24.340       0.77       1         30       14.357       33.409       14.353       24.885       1.09       1         40       13.322       33.322       13.316       25.031       1.39       1         50       12.636       33.325       12.629       25.169       1.68       1         60       12.275       33.339       12.267       25.249       1.95       1         70       12.066       33.441       12.057       25.368       2.22       1         80       11.191       33.511       11.181       25.584       2.47       1	_		salinity	temperature		anomaly	flag
10       17.942       33.483       17.940       24.126       0.39       1         20       17.310       33.563       17.307       24.340       0.77       1         30       14.357       33.409       14.353       24.885       1.09       1         40       13.322       33.322       13.316       25.031       1.39       1         50       12.636       33.325       12.629       25.169       1.68       1         60       12.275       33.339       12.267       25.249       1.95       1         70       12.066       33.441       12.057       25.368       2.22       1         80       11.191       33.511       11.181       25.584       2.47       1		·		(deglee c)	(Ag/m²)	(m/ #) -	
20       17.310       33.563       17.307       24.340       0.77       1         30       14.357       33.409       14.353       24.885       1.09       1         40       13.322       33.322       13.316       25.031       1.39       1         50       12.636       33.325       12.629       25.169       1.68       1         60       12.275       33.339       12.267       25.249       1.95       1         70       12.066       33.441       12.057       25.368       2.22       1         80       11.191       33.511       11.181       25.584       2.47       1							2
30     14.357     33.409     14.353     24.885     1.09     1       40     13.322     33.322     13.316     25.031     1.39     1       50     12.636     33.325     12.629     25.169     1.68     1       60     12.275     33.339     12.267     25.249     1.95     1       70     12.066     33.441     12.057     25.368     2.22     1       80     11.191     33.511     11.181     25.584     2.47     1							1
40     13.322     33.322     13.316     25.031     1.39     1       50     12.636     33.325     12.629     25.169     1.68     1       60     12.275     33.339     12.267     25.249     1.95     1       70     12.066     33.441     12.057     25.368     2.22     1       80     11.191     33.511     11.181     25.584     2.47     1							1
50     12.636     33.325     12.629     25.169     1.68     1       60     12.275     33.339     12.267     25.249     1.95     1       70     12.066     33.441     12.057     25.368     2.22     1       80     11.191     33.511     11.181     25.584     2.47     1							1
60     12.275     33.339     12.267     25.249     1.95     1       70     12.066     33.441     12.057     25.368     2.22     1       80     11.191     33.511     11.181     25.584     2.47     1							1
70 12.066 33.441 12.057 25.368 2.22 1 80 11.191 33.511 11.181 25.584 2.47 1	60	12.275					ī
80 11.191 33.511 11.181 25.584 2.47 1			33,441	12.057			1
עט 10.775 33.577 10.764 25.710 2.70 1						2.47	1
444				10.764	25.710	2.70	1
100 10.396 33.647 10.384 25.830 2.93 1 125 9.617 33.755 9.603 26.046 3.45 1							1
							1
150 8.794 33.928 8.778 26.314 3.91 1 175 8.360 33.969 8.342 26.413 4.34 1							_
200 7.868 34.027 7.848 26.532 4.74 1							
225 7.711 34.042 7.689 26.567 5.12 1	225	7.711					
250 7.521 34.071 7.497 26.618 5.49 1		7.521	34.071	7.497	26.618		_
300 7.038 34.144 7.010 26.743 6.19 1	300	7.038	34.144	7.010	26.743	6.19	1



FRONTS I

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
65	191: 2: 3	31 27.0 N	119 55.5 W	6	36	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	17.808	33.481	17.808	24.157	0.	2
10	17.413	33.519	17.411	24.281	0.37	1
20	16.407	33.443	16.404	24.459	0.73	1
30	14.775	33.231	14.771	24.659	1.07	1
40	13.645	33.205	13.639	24.875	1.38	1
50	13.102	33.257	13.095	25.025	1.68	1
60	12.506	33.249	12.498	25.135	1.98	1
70	12.334	33.323	12.325	25.226	2.26	1
80	11.800	33.378	11.790	25.369	2.52	1
90	11.430	33.446	11.419	25.490	2.78	1
100	11.172	33.462	11.160	25.550	3.03	1
125	10.122	33.702	10.108	25.921	3.60	1
150	9.303	33.824	9.287	26.152	4.10	1
175	8.880	33.912	8.861	26,288	4.56	1
200	8.486	33.966	8.465	26.392	4.99	1
225	8.064	34.008	8.041	26.489	5.39	1
250	7.482	34.036	7.458	26.596	5.78	1
300	6.842	34.068	6.814	26.710	6.49	1 1

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
66	191: 3:22	31 19.5 N	120 1.4 W	9	1	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
0	18.004	33.216	18.004	23.906	0.	2
10	17.629	33.250	17.627	24.023	0.40	1
20	17.200	33.279	17.197	24.148	0.78	1
30	15.714	33.334	15.709	24.532	1.14	1
40	14.888	33.340	14.882	24.719	1.47	1
50	14.112	33.303	14.105	24.855	1.79	1
60	13.499	33.302	13.491	24.980	2.09	1
70	12.969	33.302	12.960	25.086	2.39	1
80	12.681	33.339	12.670	25.172	2.68	1
90	12.070	33.400	12.058	25.336	2.95	1
100	11.835	33.420	11.822	25.396	3.22	1
125	11.034	33.693	11.019	25.755	3.84	1
1 50	9.716	33.746	9.699	26.023	4.38	1
175	9.155	33.863	9.136	26.207	4.86	1
200	8.597	33.947	8.576	26.360	5.30	1
225	8.059	33.996	8.036	26.480	5.71	1
2 50	7.750	34.055	7.725	26.572	6.11	1
300	7.511	34.146	7.482	26.679	6.84	1



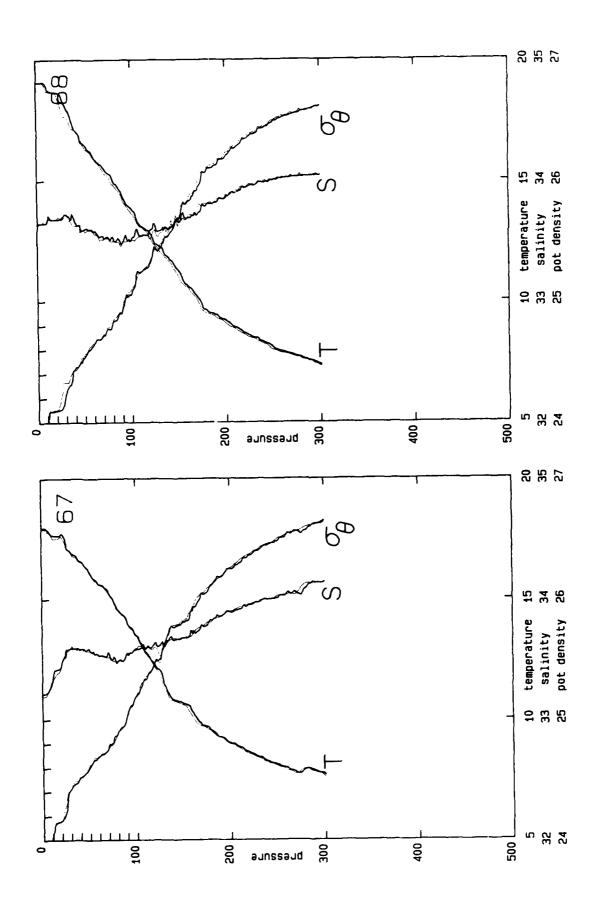
ACCOUNT OF THE ACCOUNT OF THE STATE OF THE S

	TZON

FRONTS I

station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
67	191: 4:37	31 11.5 N	120 7.8 W	6	1	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	17.926	33.218	17.926	23.927	0.	2
10	17.708	33.302	17.706	24.044	0.40	1
20	17.660	33.452	17.657	24.171	0.78	1
30	17.021	33.591	17.016	24.430	1.14	1
40	16.593	33.583	16.587	24.524	1.49	1
50	16.153	33.589	16.145	24.630	1.83	1
60	15.630	33.534	15.621	24.706	2.16	1
70	15.324	33.562	15.313	24.796	2.48	1
80	14.569	33.480	14.557	24.896	2.80	1
90	14.089	33.550	14.076	25.052	3.10	1
100	13.482	33.584	13.468	25.203	3.39	1
125	12.028	33.618	12.012	25.514	4.04	1
150	10.654	33.678	10.636	25.811	4.62	1
175	9.675	33.779	9,655	26.056	5.15	1
200	8.992	33.886	8.970	26.251	5.62	1
225	8.495	33.967	8.472	26.392	6.05	1
250	8.096	34.007	8.071	26.484	6.46	1
300	7.647	34.143	7.617	26.657	7.22	1

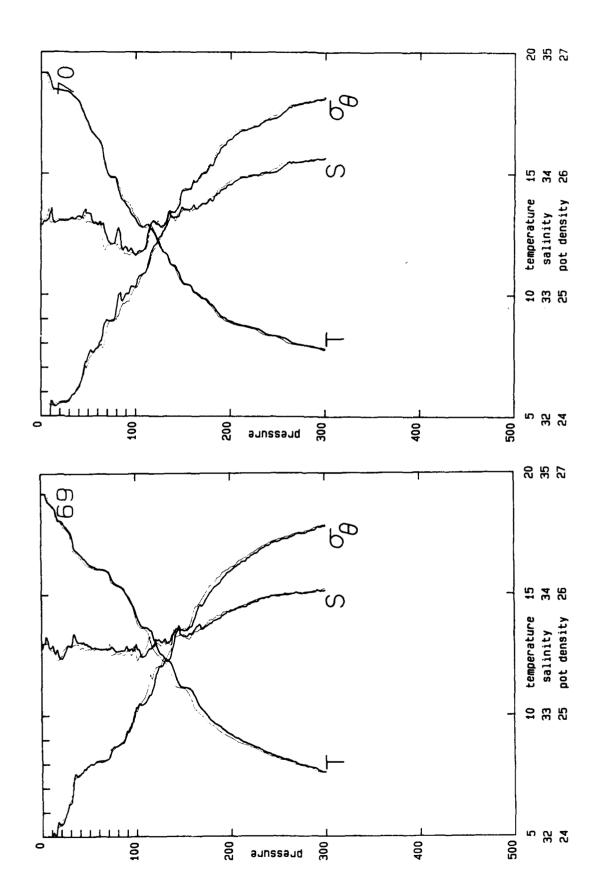
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
68	191: 6: 4	31 4.0 N	120 14.8 W	6	1	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	19.081	33.644	19.081	23.966	0.	2
10	19.000	33.654	18.998	23.994	0.40	1
20	18.657	33.682	18.653	24.102	0.78	1
30	18.156	33.725	18.151	24.260	1.16	1
40	17.106	33.656	17.099	24.460	1.52	1
50	16.518	33.604	16.510	24.558	1.86	1
60	15.995	33.584	15.986	24.663	2.20	1
70	15.538	33.541	15.527	24.732	2.53	1
80	15.031	33.550	15.019	24.851	2.85	1
90	14.344	33.482	14.331	24.946	3.16	1
100	13.809	33.512	13.795	25.080	3.45	1
125	12.371	33.611	12.355	25.443	4.14	1
150	11,214	33.651	11.195	25.691	4.76	1
175	9.677	33.798	9.657	26.071	5.30	1
200	9.169	33.870	9.147	26.210	5.78	1
225	8.544	33.962	8.520	26.380	6.22	1
250	8.020	34.010	7.995	26.497	6.63	1
300	7.332	34.042	7.303	26.622	7.39	1



TATELOUGH CONTRACT DECISION DESCRIPTION OF THE PROPERTY OF THE

FRONTS I

RV !	NEW HO	DRIZON	FRONT	S I			
	tion	date: time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
6	9	191: 7:22	30 56.4 N	120 21.0 W	7	9	
de	pth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	fl
(1	m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
	0	19.166	33.557	19.166	23.878	0.	2
	10	18.723	33.560	18.721	23.992	0.40	1
	20	18.031	33.469	18.028	24.094	0.79	1
	30	17.604	33.574	17.599	24.278	1.16	1
	40 50	16.704	33.603	16.698	24.514	1.51	1
	50	16.260	33.580	16.252	24.599	1.85	1
	60 50	16.057	33.549	16.048	24.622	2.19	1
	70	15.962	33.552	15.951	24.646	2.52 2.85	1
	80 90	15.396	33.532	15.384	24.757	3.16	1
	90 00	14.988 14.105	33.573 33.548	14.974 14.091	24.878	3.47	1
	25	12.559	33.608	12.542	25.047 25.405	4.17	1
	50	11.147	33.650	11.129	25.702	4.79	î
	75	9.958	33.745	9.938	25.983	5.34	1
	00	9.180	33.861	9.158	26.201	5.83	1
	25	8.675	33.941	8.651	26.344	6.27	1
	50	8,262	33.985	8.236	26.442	6.69	ī
3	00	7.671	34.032	7.641	26.566	7.48	1
sta	tion	date: time	latitude	longitude	Wind speed	wind direction	
7	0	julian: GMT 191: 9:22	30 48.3 N	120 8.1 W	knots 6	WMO code 25	
de	pth	temperature	salinity	potential	Sigma-theta	geopotential	f1
	_	<del>-</del>	,	temperature	-		
(	m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) 2	
	0	19.146	33.578	19.146	23.899	0.	2
	10	18.840	33.669	18.838	24.046	0.40	1
	20	18.415	33.611	18.412	24.108	0.78	1
	30	18.347	33.620	18.342	24.132	1.16	1
	40	17.961	33.648	17.954	24.249	1.54	1
	50	17.006	33.674	16.998	24.498	1.90	1
	60	16.401	33.573	16.391	24.562	2.24	1
	70	14.986	33.467	14.976	24.796	2.57	1
	80	14.617	33.500	14.605	24.901	2.89	1
_	90	13.661	33.387	13.648	25.014	3.19	1
	100	13.105	33.316	13.091	25.071	3.48	1
	125	12.007	33.575	11.991	25.485	4.16	1
	150	10.471	33.700	10.453	25.860	4.75	1
	175	9.765	33.766	9.745	26.031	5.28	1
	200	8.896	33.910	8.87 <i>5</i>	26.285	5.75	1
	225	8.619	33.989	8.595	26.390	6.18	1
	250	8.298	34.033	8.272	26.474	6.59	1
	300	7.740	34.129	7.710	26.633	7.35	1

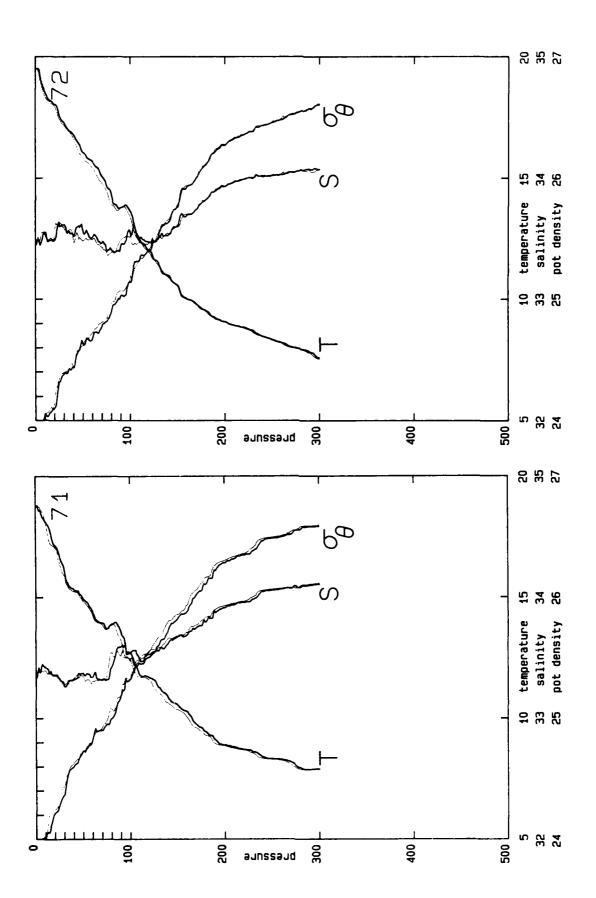


RY NEW BORIZON

STANDONE STANDON BERESTAND STANDS OF STANDONESS STANDONESS

FRONTS I

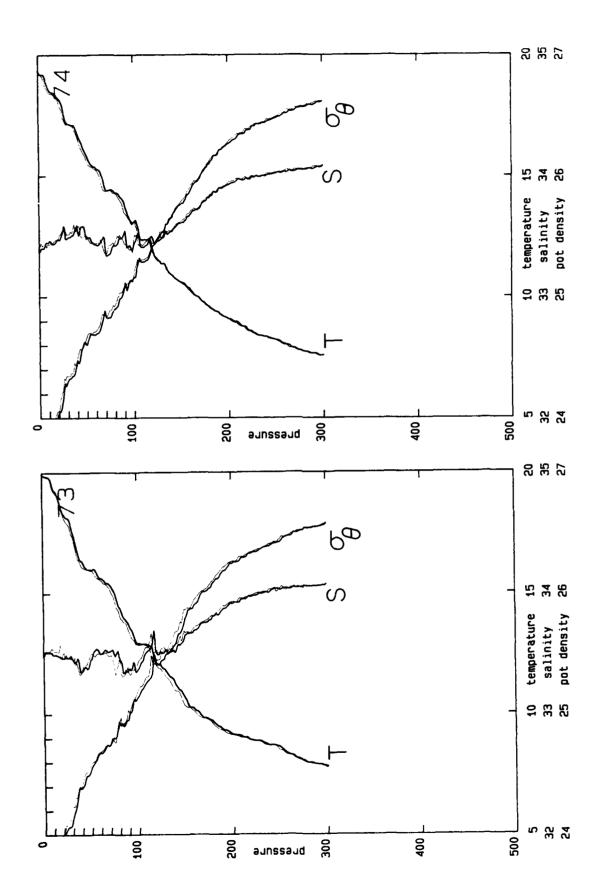
KA NEM H	UKIZUN	FRUN	12 1			
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
71	191:12: 1	30 33.9 N	119 46.8 W	3	36	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	18.787	33.336	18.787	23.805	0.	2
10	18.136	33.419	18.134	24.030	0.40	1
20	17.158	33.356	17.155	24.217	0.78	1
30	16.209	33.267	16.204	24.370	1.15	1
40	15.335	33.321	15.329	24.607	1.49	1
50	14.944	33.377	14.937	24.735	1.82	1
60	14.372	33.354	14.363	24.840	2.14	1
70	13.928	33.315	13.918	24.903	2.44	1
80	13.866	33.426	13.855	25.002	2.75	1
90	13.534	33.595	13.521	25.201	3.04	1
100	12.689	33.546	12.676	25.331	3.31	1
125	11.580	33.553	11.564	25.547	3.95	1
150	10.529	33.676	10.511	25.831	4.53	1
175	9.590	33.768	9.570	26.062	5.05	1
200	8.879	33.914	8.858	26.291	5.52	1
225	8.671	33.959	8.647	26.359	5.95	1
250	8.303	34.058	8.277	26.493	6.36	1
300	7.904	34.107	7.874	26.591	7.13	1
station	date: time	latitude	longitude	Wind speed	wind direction	
72	julian: GMT 191:15: 6	30 18.5 N	119 21.1 W	knots 11	WMO code 36	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	$(kg/m^3)$	(m/s) <sup>2</sup>	
0	19.501	33.450	19.501	23.710	0.	2
10	18,561	33.553	18,559	24.027	0.41	1
20	18.035	33.483	18.032	24.104	0.79	1
30	17.288	33.613	17.283	24.384	1.16	1
40	16.791	33.532	16.785	24.439	1.52	1
50	16.052	33.568	16.044	24.637	1.85	1
60	15.685	33.506	15.676	24.672	2.19	1
70	15.053	33.460	15.042	24.776	2.51	1
80	14.315	33.407	14.303	24.894	2.83	1
90	13.796	33.456	13.783	25.039	3.13	1
100	13.641	33.550	13.627	25.144	3.42	1
125	11.638	33.477	11.622	25.477	4.08	1
150	10.575	33.602	10.557	25.766	4.68	1
175	9.613	33.797	9.593	26.081	5.21	1
200	9.062	33.932	9.040	26.276	5.67	1
225	8.739	34.004	8.715	26.383	6.10	1
250	8.318	34.023	8.292	26.463	6.52	1
300	7.545	34.072	7.516	26.616	7.29	1



A COMPANY OF THE PROPERTY OF T

FRONTS I

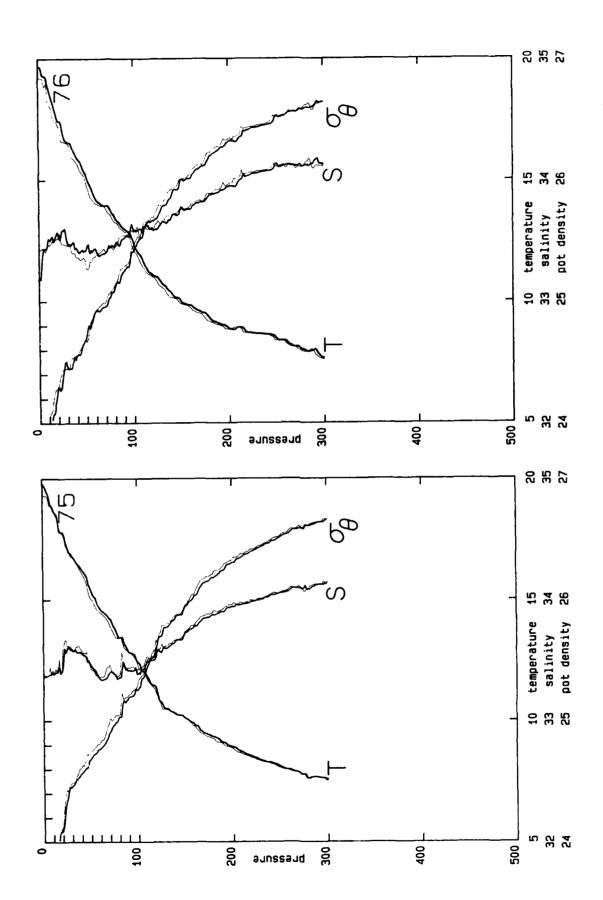
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
73	191:16:50	30 10.6 N	119 9.3 W	7	36	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	fla
(m)	(degree C)		(degree C)	$(kg/m^3)$	$(m/s)^2$	
0	19.889	33.486	19.889	23.637	0.	2
10	19.573	33.495	19.571	23.727	0.42	1
20	18.474	33.463	18.471	23.981	0.83	1
30	17.795	33.495	17.790	24.172	1.22	1
40	16.369	33.353	16.363	24.399	1.58	1
50	15.987	33.459	15.979	24.568	1.93	1
60	15.628	33.497	15.619	24.678	2.26	1
70	15.358	33.519	15.347	24.755	2.59	1
80	14.420	33.471	14.408	24.921	2.90	1
90	13.686	33.380	13.673	25.003	3.21	1
100	12.939	33.376	12.925	25.150	3.50	1
125	11.910	33.510	11.894	25.452	4.17	1
150	10.607	33.656	10.589	25.802	4.78	1
175	9.755	33.775	9.735	26.040	5.30	1
200	9.135	33.916	9.113	26.252	5.78	1
225	8.867	33.978	8.843	26.343	6.22	1
250	8.562	34.024	8.536	26.427	6.64	1
300	7.769	34.079	7.739	26.589	7.42	1
station	date: time	latitude	longitude	wind speed	wind direction	
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
station 74		latitude 30 17.3 N	longitude 119 2.8 W	_		
	julian: GMT		119 2.8 W	knots	WMO code 3 geopotential	flag
74	julian: GMT 191:18: 5	30 17.3 N	119 2.8 W	knots 6	WMO code 3	flag
74 depth (m)	julian: GMT 191:18: 5 temperature (degree C)	30 17.3 N salinity 33.378	potential temperature (degree C)	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719	WMO code 3 geopotential anomaly	fla <sub>1</sub>
74 depth (m) 0 10	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674	30 17.3 N salinity 33.378 33.449	potential temperature (degree C)  19.251 18.672	knots 6 sigma-theta (kg/m <sup>3</sup> )	www.code 3 geopotential anomaly (m/s) 0. 0.41	
74 depth (m) 0 10 20	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239	30 17.3 N salinity 33.378 33.449 33.473	potential temperature (degree C) 19.251 18.672 18.236	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046	WMO code 3 geopotential anomaly (m/s) 0.	2
74 depth (m) 0 10 20 30	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172	30 17.3 N salinity  33.378 33.449 33.473 33.487	potential temperature (degree C)  19.251 18.672	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920	www.code 3 geopotential anomaly (m/s) 0. 0.41	2 1
74 depth (m) 0 10 20 30 40	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172 16.824	30 17.3 N salinity  33.378 33.449 33.473 33.487 33.552	potential temperature (degree C) 19.251 18.672 18.236	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046	www code 3 geopotential anomaly (m/s) 0. 0.41 0.81	2 1 1
74 depth (m) 0 10 20 30 40 50	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172 16.824 15.882	30 17.3 N salinity  33.378 33.449 33.473 33.487	potential temperature (degree C) 19.251 18.672 18.236 17.167	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046 24.315	WMO code 3 geopotential anomaly (m/s) <sup>2</sup> 0. 0.41 0.81 1.18	2 1 1 1
74 depth (m) 0 10 20 30 40 50 60	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172 16.824 15.882 15.315	33.378 33.449 33.473 33.487 33.552 33.473 33.435	potential temperature (degree C) 19.251 18.672 18.236 17.167 16.817 15.874 15.306	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046 24.315 24.447 24.603 24.700	WMO code 3 geopotential anomaly (m/s) <sup>2</sup> 0. 0.41 0.81 1.18 1.54 1.88 2.21	2 1 1 1
74 depth (m) 0 10 20 30 40 50 60 70	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172 16.824 15.882 15.315 14.426	33.378 33.449 33.473 33.487 33.552 33.473	potential temperature (degree C) 19.251 18.672 18.236 17.167 16.817 15.874	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046 24.315 24.447 24.603	WMO code 3 geopotential anomaly (m/s) <sup>2</sup> 0. 0.41 0.81 1.18 1.54 1.88	2 1 1 1 1
74 depth (m) 0 10 20 30 40 50 60 70 80	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172 16.824 15.882 15.315 14.426 14.315	33.378 33.378 33.449 33.473 33.552 33.473 33.435 33.435 33.353 33.426	potential temperature (degree C) 19.251 18.672 18.236 17.167 16.817 15.874 15.306 14.416 14.303	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046 24.315 24.447 24.603 24.700 24.828 24.908	WMO code 3  geopotential anomaly (m/s) 2  0. 0.41 0.81 1.18 1.54 1.88 2.21 2.53 2.84	2 1 1 1 1 1
74 depth (m) 0 10 20 30 40 50 60 70 80 90	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172 16.824 15.882 15.315 14.426 14.315 13.861	33.378 33.378 33.449 33.473 33.552 33.473 33.435 33.435 33.353 33.426 33.536	potential temperature (degree C) 19.251 18.672 18.236 17.167 16.817 15.874 15.306 14.416 14.303 13.848	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046 24.315 24.447 24.603 24.700 24.828 24.908 25.088	WMO code 3  geopotential anomaly (m/s) 2  0. 0.41 0.81 1.18 1.54 1.88 2.21 2.53 2.84 3.14	2 1 1 1 1 1 1 1 1
74  depth (m)  0 10 20 30 40 50 60 70 80 90 100	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172 16.824 15.882 15.315 14.426 14.315 13.861 13.120	33.378 33.378 33.449 33.473 33.552 33.473 33.435 33.435 33.353 33.426 33.536 33.447	potential temperature (degree C)  19.251 18.672 18.236 17.167 16.817 15.874 15.306 14.416 14.303 13.848 13.106	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046 24.315 24.447 24.603 24.700 24.828 24.908 25.088 25.169	WMO code 3  geopotential anomaly (m/s) 2  0. 0.41 0.81 1.18 1.54 1.88 2.21 2.53 2.84 3.14 3.43	2 1 1 1 1 1 1 1 1 1
74  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172 16.824 15.882 15.315 14.426 14.315 13.861 13.120 11.492	33.378 33.378 33.449 33.473 33.552 33.473 33.435 33.435 33.435 33.436 33.447 33.465	potential temperature (degree C)  19.251 18.672 18.236 17.167 16.817 15.874 15.306 14.416 14.303 13.848 13.106 11.476	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046 24.315 24.447 24.603 24.700 24.828 24.908 25.088 25.169 25.495	WMO code 3  geopotential anomaly (m/s) 2  0. 0.41 0.81 1.18 1.54 1.88 2.21 2.53 2.84 3.14 3.43 4.10	2 1 1 1 1 1 1 1 1 1 1
74  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172 16.824 15.882 15.315 14.426 14.315 13.861 13.120 11.492 10.591	33.378 33.378 33.449 33.473 33.552 33.473 33.435 33.435 33.435 33.435 33.435 33.447 33.465 33.536	potential temperature (degree C)  19.251 18.672 18.236 17.167 16.817 15.874 15.306 14.416 14.303 13.848 13.106 11.476 10.573	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046 24.315 24.447 24.603 24.700 24.828 24.908 25.088 25.169 25.495 25.771	WMO code 3 geopotential anomaly (m/s) <sup>2</sup> 0. 0.41 0.81 1.18 1.54 1.88 2.21 2.53 2.84 3.14 3.43 4.10 4.70	2 1 1 1 1 1 1 1 1 1 1 1 1
74  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172 16.824 15.882 15.315 14.426 14.315 13.861 13.120 11.492 10.591 9.684	33.378 33.449 33.473 33.487 33.552 33.473 33.435 33.353 33.426 33.536 33.447 33.465 33.613 33.790	potential temperature (degree C)  19.251 18.672 18.236 17.167 16.817 15.874 15.306 14.416 14.303 13.848 13.106 11.476 10.573 9.664	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046 24.315 24.447 24.603 24.700 24.828 24.908 25.088 25.169 25.495 25.771 26.064	WMO code 3 geopotential anomaly (m/s) <sup>2</sup> 0. 0.41 0.81 1.18 1.54 1.88 2.21 2.53 2.84 3.14 3.43 4.10 4.70 5.23	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
74  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172 16.824 15.882 15.315 14.426 14.315 13.861 13.120 11.492 10.591 9.684 9.080	33.378 33.449 33.473 33.487 33.552 33.473 33.435 33.435 33.426 33.536 33.447 33.465 33.613 33.790 33.929	potential temperature (degree C)  19.251 18.672 18.236 17.167 16.817 15.874 15.306 14.416 14.303 13.848 13.106 11.476 10.573 9.664 9.058	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046 24.315 24.447 24.603 24.700 24.828 24.908 25.088 25.169 25.495 25.771 26.064 26.271	WMO code 3 geopotential anomaly (m/s) <sup>2</sup> 0. 0.41 0.81 1.18 1.54 1.88 2.21 2.53 2.84 3.14 3.43 4.10 4.70 5.23 5.70	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
74  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172 16.824 15.882 15.315 14.426 14.315 13.861 13.861 13.120 11.492 10.591 9.684 9.080 8.498	33.378 33.449 33.473 33.487 33.552 33.473 33.435 33.426 33.536 33.447 33.465 33.613 33.790 33.929 33.995	potential temperature (degree C) 19.251 18.672 18.236 17.167 16.817 15.874 15.306 14.416 14.303 13.848 13.106 11.476 10.573 9.664 9.058 8.475	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046 24.315 24.447 24.603 24.700 24.828 24.908 25.088 25.169 25.495 25.771 26.064 26.271 26.413	WMO code 3  geopotential anomaly (m/s)  0. 0.41 0.81 1.18 1.54 1.88 2.21 2.53 2.84 3.14 3.43 4.10 4.70 5.23 5.70 6.13	1 1 1 1 1 1 1 1 1 1 1 1 1
74  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200	julian: GMT 191:18: 5 temperature (degree C) 19.251 18.674 18.239 17.172 16.824 15.882 15.315 14.426 14.315 13.861 13.120 11.492 10.591 9.684 9.080	33.378 33.449 33.473 33.487 33.552 33.473 33.435 33.435 33.426 33.536 33.447 33.465 33.613 33.790 33.929	potential temperature (degree C)  19.251 18.672 18.236 17.167 16.817 15.874 15.306 14.416 14.303 13.848 13.106 11.476 10.573 9.664 9.058	knots 6 sigma-theta (kg/m <sup>3</sup> ) 23.719 23.920 24.046 24.315 24.447 24.603 24.700 24.828 24.908 25.088 25.169 25.495 25.771 26.064 26.271	WMO code 3 geopotential anomaly (m/s) <sup>2</sup> 0. 0.41 0.81 1.18 1.54 1.88 2.21 2.53 2.84 3.14 3.43 4.10 4.70 5.23 5.70	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



CONSTRUCTION ASSESSED FRANCISCO PROPERTY SERVICES SERVICES PROPERTY SERVICES PROPERTY OF THE P

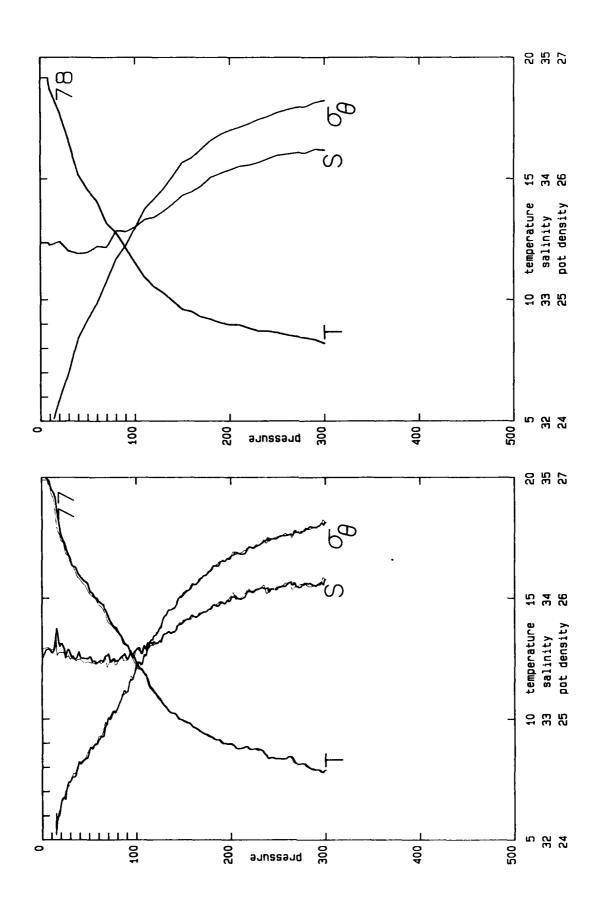
DV	NEW	HO	<b>P17</b>	<b>NN</b>

NEW H	ORIZON	FRONT	rs I			
tation	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WNO code	
75	191:19:24	30 25.4 N	118 56.2 W	1	36	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	19.770	33.363	19.770	23.575	0.	2
10	18.844	33.399	18.842	23.839	0.42	1
20	17.801	33.419	17.798	24.112	0.82	1 1
30 40	16.880 16.294	33.593 33.560	16.875 16.288	24.465 24.576	1.17 1.52	1
50	15.423	33.461	15.415	24.695	1.85	1
60	14.625	33.345	14.616	24.780	2.17	ī
70	14.196	33.402	14.186	24.914	2.49	1
80	13.432	33.360	13.421	25.039	2.79	1
90	12.852	33.416	12.840	25.198	3.08	1
100	12.394	33.391	12.381	25.268	3.35	1
125	10.724	33.570	10.709	25.714	3.98	1
150	10.082 9.395	33.730 33.858	10.065 9.376	25.950 26.164	4.53 5.02	1 1
175 200	8.899	33.942	8.878	26.309	5.48	1
225	8.427	33.995	8.404	26.424	5.90	ī
250	8.081	34.055	8.056	26.524	6.30	1
300	7.508	34.146	7.479	26.679	7.05	1
tion 76	date:time julian: GMT 191:20:54	1atitude 30 34.5 N	10ngitude 118 50.0 W	wind speed knots 4	wind direction WMO code 36	
iopth (m)	temperature (degree C)	salinity	potential temperature (degree C)	sigma-theta (kg/m <sup>3</sup> )	geopotential anomaly (m/s) <sup>2</sup>	flag
0 10	19.667 18.940	33.183 33.520	19.667 18.938	23.464 23.907	0. 0.42	2 1
20	17.475	33.563	17.472	24.300	0.80	1
30	16.573	33.482	16.568	24.451	1.16	- 1
40	15.914	33.437	15.908	24.567	1.51	1
50	15.186	33.436	15.178	24.728	1.84	1
60	14.205	33.420	14.196	24.926	2.15	1
70	13.949	33.403	13.939	24.967	2.46	1
80	13.486	33.472	13.475	25.115	2.75	1
90 100	12.976 12.347	33.526 33.597	12.964 12.334	25.259 25.437	3.03 3.30	1 1
125	10.973	33.599	10.958	25.693	3.90	1
150	9.943	33.777	9.926	26.010	4.45	î
175	9.480	33.830	9.461	26.128	4.95	1
200	8.848	33.950	8.827	26.324	5.40	1
225	8.662	34.051	8.638	26.432	5.83	1
250	8.408	34.122	8.382	26.527	6.23	1
300	7.617	34.118	7.587	26.642	6.99	1



ALCON TO THE PROPERTY OF THE P

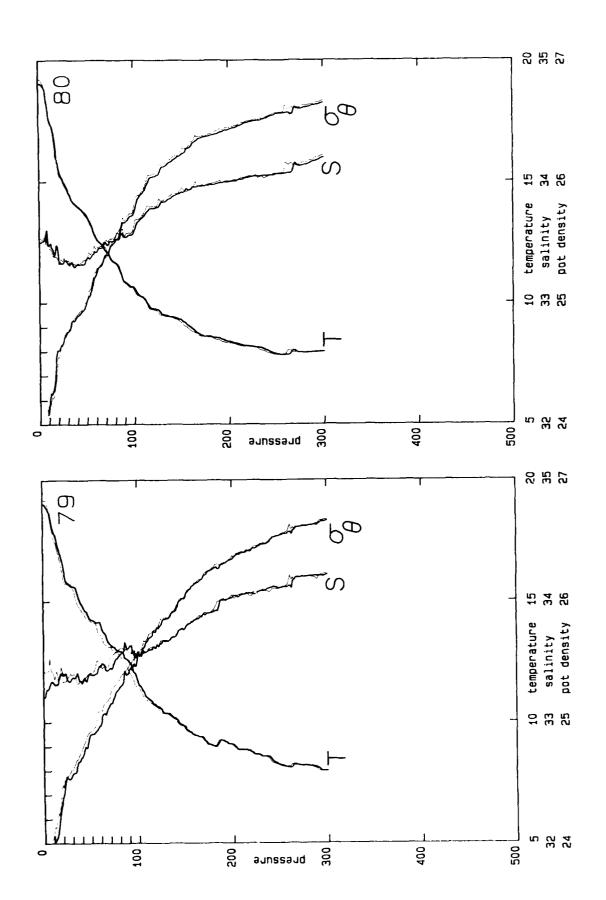
station	ORIZON	FRON?	rs i			
	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
77	191:22:17	30 43.1 N	118 42.3 W	1	19	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	$(m/s)^2$	
0	20.102	33.513	20.102	23.602	0.	2
10	19.504	33.550	19.502	23.786	0.42	1
20	17.684	33.622	17.681	24.296	0.81	1
30 40	16.606 15.918	33.532	16.601	24.482	1.17	1
50	15.353	33.519 33.524	15.912 15.345	24.629 24.759	1.51 1.84	1
60	14.849	33.475	14.840	24.832	2.15	1
70	14.208	33.542	14.198	25.020	2.46	1
80	13.629	33.489	13.618	25.099	2.76	1
90	13.028	33.490	13.016	25.221	3.04	ī
100	12.276	33.577	12.263	25.435	3.30	1
125	10.801	33.645	10.786	25.759	3.91	1
1 50	9.880	33.817	9.863	26.052	4.44	1
175	9.312	33.900	9.293	26.210	4.92	1
200	8.925	34.011	8.904	26.359	5.36	1
225	8.761	34.069	8.737	26.431	5.78	1
250 300	8.340 7.891	34.089 34.154	8.314 7.861	26.512 26.630	6.18 6.94	1 1
				20.030	0.54	•
station	date:time julian: GMT	latitude	longitude	wind speed	wind direction	
78	192: 0:22	31 1.8 N	118 39.8 W	knots 4	WMO code 36	
	temperature	salinity	potential	sigma-theta	geopotential	flag
depth	=		temperature	_	anomaly	
depth (m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
	(degree C)	33.470	-	(kg/m <sup>3</sup> )		
(m) 0 10	19.417 18.711	33.440	(degree C)		(m/s) <sup>2</sup>	2 1
(m) 0 10 20	19.417 18.711 17.754	33.440 33.470	19.417 18.709 17.751	23.747 23.903 24.162	0. 0.41 0.80	1 1
(m) 0 10 20 30	19.417 18.711 17.754 16.541	33.440 33.470 33.390	19.417 18.709 17.751 16.536	23.747 23.903 24.162 24.388	0. 0.41 0.80 1.17	1 1 1
(m) 0 10 20 30 40	19.417 18.711 17.754 16.541 15.200	33.440 33.470 33.390 33.370	19.417 18.709 17.751 16.536 15.194	23.747 23.903 24.162 24.388 24.674	0. 0.41 0.80 1.17 1.51	1 1 1 1
(m) 0 10 20 30 40 50	19.417 18.711 17.754 16.541 15.200 14.544	33.440 33.470 33.390 33.370 33.380	19.417 18.709 17.751 16.536 15.194 14.537	23.747 23.903 24.162 24.388 24.674 24.823	0. 0.41 0.80 1.17 1.51 1.83	1 1 1 1
(m) 0 10 20 30 40 50 60	19.417 18.711 17.754 16.541 15.200 14.544 14.061	33.440 33.470 33.390 33.370 33.380 33.430	19.417 18.709 17.751 16.536 15.194 14.537 14.052	23.747 23.903 24.162 24.388 24.674 24.823 24.964	0. 0.41 0.80 1.17 1.51 1.83 2.14	1 1 1 1 1
(m) 0 10 20 30 40 50 60 70	19.417 18.711 17.754 16.541 15.200 14.544 14.061 13.147	33.440 33.470 33.390 33.370 33.380 33.430 33.420	19.417 18.709 17.751 16.536 15.194 14.537 14.052 13.137	23.747 23.903 24.162 24.388 24.674 24.823 24.964 25.142	0. 0.41 0.80 1.17 1.51 1.83 2.14 2.43	1 1 1 1 1 1
(m) 0 10 20 30 40 50 60 70 80	19.417 18.711 17.754 16.541 15.200 14.544 14.061 13.147	33.440 33.470 33.390 33.370 33.380 33.430 33.420 33.560	19.417 18.709 17.751 16.536 15.194 14.537 14.052 13.137 12.766	23.747 23.903 24.162 24.388 24.674 24.823 24.964 25.142 25.324	0. 0.41 0.80 1.17 1.51 1.83 2.14 2.43 2.71	1 1 1 1 1 1 1
(m) 0 10 20 30 40 50 60 70	19.417 18.711 17.754 16.541 15.200 14.544 14.061 13.147	33.440 33.470 33.390 33.370 33.380 33.430 33.420 33.560 33.550	19.417 18.709 17.751 16.536 15.194 14.537 14.052 13.137 12.766 12.157	23.747 23.903 24.162 24.388 24.674 24.823 24.964 25.142 25.324 25.434	0. 0.41 0.80 1.17 1.51 1.83 2.14 2.43 2.71 2.97	1 1 1 1 1 1 1
(m) 0 10 20 30 40 50 60 70 80 90	19.417 18.711 17.754 16.541 15.200 14.544 14.061 13.147 12.777	33.440 33.470 33.390 33.370 33.380 33.430 33.420 33.560	19.417 18.709 17.751 16.536 15.194 14.537 14.052 13.137 12.766	23.747 23.903 24.162 24.388 24.674 24.823 24.964 25.142 25.324 25.434 25.582	0. 0.41 0.80 1.17 1.51 1.83 2.14 2.43 2.71 2.97 3.22	1 1 1 1 1 1 1
(m) 0 10 20 30 40 50 60 70 80 90 100	19.417 18.711 17.754 16.541 15.200 14.544 14.061 13.147 12.777 12.169 11.543 10.423 9.618	33.440 33.470 33.390 33.370 33.380 33.430 33.420 33.560 33.550 33.590	19.417 18.709 17.751 16.536 15.194 14.537 14.052 13.137 12.766 12.157 11.530	23.747 23.903 24.162 24.388 24.674 24.823 24.964 25.142 25.324 25.434	0. 0.41 0.80 1.17 1.51 1.83 2.14 2.43 2.71 2.97	1 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175	19.417 18.711 17.754 16.541 15.200 14.544 14.061 13.147 12.777 12.169 11.543 10.423 9.618 9.260	33.440 33.470 33.390 33.370 33.380 33.430 33.420 33.560 33.550 33.590 33.695 33.850 33.965	19.417 18.709 17.751 16.536 15.194 14.537 14.052 13.137 12.766 12.157 11.530 10.408 9.601 9.241	23.747 23.903 24.162 24.388 24.674 24.823 24.964 25.142 25.324 25.324 25.582 25.864 26.121 26.270	0. 0.41 0.80 1.17 1.51 1.83 2.14 2.43 2.71 2.97 3.22 3.79 4.30 4.77	1 1 1 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200	19.417 18.711 17.754 16.541 15.200 14.544 14.061 13.147 12.777 12.169 11.543 10.423 9.618 9.260 8.985	33.440 33.470 33.390 33.370 33.380 33.430 33.420 33.560 33.550 33.590 33.695 33.850 33.965 34.060	19.417 18.709 17.751 16.536 15.194 14.537 14.052 13.137 12.766 12.157 11.530 10.408 9.601 9.241 8.963	23.747 23.903 24.162 24.388 24.674 24.823 24.964 25.142 25.324 25.434 25.582 25.864 26.121 26.270 26.388	0. 0.41 0.80 1.17 1.51 1.83 2.14 2.43 2.71 2.97 3.22 3.79 4.30 4.77 5.20	1 1 1 1 1 1 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200 225	19.417 18.711 17.754 16.541 15.200 14.544 14.061 13.147 12.777 12.169 11.543 10.423 9.618 9.260 8.985 8.784	33.440 33.470 33.390 33.370 33.380 33.430 33.420 33.560 33.550 33.550 33.590 33.695 33.850 33.965 34.060 34.110	19.417 18.709 17.751 16.536 15.194 14.537 14.052 13.137 12.766 12.157 11.530 10.408 9.601 9.241 8.963 8.760	23.747 23.903 24.162 24.388 24.674 24.823 24.964 25.142 25.324 25.582 25.864 26.121 26.270 26.388 26.459	0. 0.41 0.80 1.17 1.51 1.83 2.14 2.43 2.71 2.97 3.22 3.79 4.30 4.77 5.20 5.61	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175 200	19.417 18.711 17.754 16.541 15.200 14.544 14.061 13.147 12.777 12.169 11.543 10.423 9.618 9.260 8.985	33.440 33.470 33.390 33.370 33.380 33.430 33.420 33.560 33.550 33.590 33.695 33.850 33.965 34.060	19.417 18.709 17.751 16.536 15.194 14.537 14.052 13.137 12.766 12.157 11.530 10.408 9.601 9.241 8.963	23.747 23.903 24.162 24.388 24.674 24.823 24.964 25.142 25.324 25.434 25.582 25.864 26.121 26.270 26.388	0. 0.41 0.80 1.17 1.51 1.83 2.14 2.43 2.71 2.97 3.22 3.79 4.30 4.77 5.20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

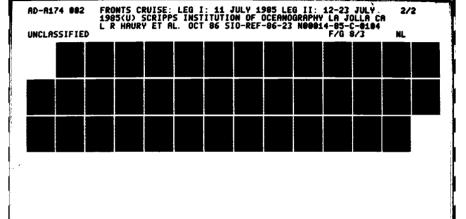


PARAMER VERNESS ENECESSE PARAMER SECTION

FRONTS I

tation	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
79	192: 1:24	31 8.0 N	118 37.7 ₩	2	9	
depth	temperature	salinity	potential temperature	sigma-theta	geopotential anomaly	flag
(m)	(degree C)		(degree C)	(kg/m <sup>3</sup> )	(m/s) <sup>2</sup>	
0	19.017	33.211	19.017	23.651	0.	2
10	18.005	33.331	18.003	23.995	0.41	1
20	16.650	33.411	16.647	24.378	0.79	1
30	15.650	33.363	15.645	24.569	1.13	1
40	14.892	33.333	14.886	24.712	1.47	1
50	14.224	33.394	14.217	24.902	1.78	1
60	14.110	33.455	14.101	24.973	2.09	1
70	13.220	33.446	13.210	25.148	2.38	1
80	12.928	33.554	12.917	25.290	2.66	1
90	12.532	33.623	12.520	25.421	2.92	1
100	11.590	33.592	11.577	25.575	3.17	1
125	10.474	33.662	10.459	25.829	3.76	1
150	9.697	33.799	9.680	26.068	4.28	1
175	9.050	33.898	9.031	26.251	4.75	1
200	9.043	34.038	9.021	26.362	5.19	1
225	8.642	34.065	8.618	26.446	5.61	1
250	8.195	34.109	8.169	26.549	6.01	1
300	7.967	34.219	7.937	26.670	6.74	1
station	date: time	latitude	longitude	wind speed	wind direction	
station	date:time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	<del></del>
station 80		latitude 31 16.8 N	longitude 118 37.3 W	_		
	julian: GMT		118 37.3 W	knots	WMO code 8 geopotential	fla
80	julian: GMT 192: 2:38	31 16.8 N	118 37.3 W	knots 2	WMO code 8	fla
80 depth (m)	julian: GMT 192: 2:38 temperature (degree C)	31 16.8 N	potential temperature (degree C)	knots 2 sigma-theta (kg/m <sup>3</sup> )	www.code 8 geopotential anomaly (m/s) <sup>2</sup>	
80 depth (m)	julian: GMT 192: 2:38 temperature (degree C)	31 16.8 N salinity 33.501	potential temperature (degree C)	sigma-theta (kg/m <sup>3</sup> ) 23.868	geopotential anomaly (m/s) 2	
80 depth (m) 0 10	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683	31 16.8 N salinity 33.501 33.454	potential temperature (degree C)  19.034 17.681	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167	geopotential anomaly (m/s) 2	
80 depth (m) 0 10 20	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638	31 16.8 N salinity  33.501 33.454 33.405	potential temperature (degree C) 19.034 17.681 15.635	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167 24.604	geopotential anomaly (m/s) 2  0. 0.40 0.75	2 1 1
80 depth (m) 0 10 20 30	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638 14.608	31 16.8 N salinity  33.501 33.454 33.405 33.327	potential temperature (degree C) 19.034 17.681 15.635 14.604	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167 24.604 24.768	www.code 8 geopotential anomaly (m/s) <sup>2</sup> 0. 0.40 0.75 1.08	2 1 1
80 depth (m) 0 10 20 30 40	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638 14.608 13.971	31 16.8 N salinity  33.501 33.454 33.405 33.327 33.318	potential temperature (degree C)  19.034 17.681 15.635 14.604 13.965	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167 24.604 24.768 24.895	WMO code 8  geopotential anomaly (m/s) <sup>2</sup> 0.  0.40  0.75  1.08  1.39	2 1 1 1
80 depth (m) 0 10 20 30 40 50	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638 14.608 13.971 13.547	31 16.8 N salinity  33.501 33.454 33.405 33.327 33.318 33.365	potential temperature (degree C)  19.034 17.681 15.635 14.604 13.965 13.540	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167 24.604 24.768 24.895 25.019	WMO code 8  geopotential anomaly (m/s) <sup>2</sup> 0.  0.40  0.75  1.08  1.39  1.70	2 1 1 1 1
80 depth (m) 0 10 20 30 40 50 60	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638 14.608 13.971 13.547 12.669	31 16.8 N salinity  33.501 33.454 33.405 33.327 33.318 33.365 33.417	potential temperature (degree C)  19.034 17.681 15.635 14.604 13.965 13.540 12.661	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167 24.604 24.768 24.895 25.019 25.234	WMO code 8  geopotential anomaly (m/s) <sup>2</sup> 0.  0.40  0.75  1.08  1.39	2 1 1 1
80 depth (m) 0 10 20 30 40 50 60 70	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638 14.608 13.971 13.547 12.669 12.112	31 16.8 N salinity  33.501 33.454 33.405 33.327 33.318 33.365 33.417 33.491	potential temperature (degree C)  19.034 17.681 15.635 14.604 13.965 13.540 12.661 12.103	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167 24.604 24.768 24.895 25.019 25.234 25.398	WMO code 8  geopotential anomaly (m/s) <sup>2</sup> 0.  0.40  0.75  1.08  1.39  1.70  1.98  2.25	2 1 1 1 1 1 1
80 depth (m) 0 10 20 30 40 50 60 70 80	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638 14.608 13.971 13.547 12.669 12.112 11.637	31 16.8 N  salinity  33.501 33.454 33.405 33.327 33.318 33.365 33.417 33.491 33.524	potential temperature (degree C)  19.034 17.681 15.635 14.604 13.965 13.540 12.661 12.103 11.627	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167 24.604 24.768 24.895 25.019 25.234 25.398 25.513	WMO code 8  geopotential anomaly (m/s) <sup>2</sup> 0.  0.40  0.75  1.08  1.39  1.70  1.98  2.25  2.50	2 1 1 1 1 1 1 1
80 depth (m) 0 10 20 30 40 50 60 70 80 90	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638 14.608 13.971 13.547 12.669 12.112 11.637 10.857	31 16.8 N  salinity  33.501 33.454 33.405 33.327 33.318 33.365 33.417 33.491 33.524 33.545	potential temperature (degree C)  19.034 17.681 15.635 14.604 13.965 13.540 12.661 12.103 11.627 10.846	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167 24.604 24.768 24.895 25.019 25.234 25.398	WMO code 8  geopotential anomaly (m/s) <sup>2</sup> 0.  0.40  0.75  1.08  1.39  1.70  1.98  2.25	2 1 1 1 1 1 1 1 1
80  depth (m)  0 10 20 30 40 50 60 70 80 90 100	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638 14.608 13.971 13.547 12.669 12.112 11.637 10.857 10.584	31 16.8 N  salinity  33.501 33.454 33.405 33.327 33.318 33.365 33.417 33.491 33.524 33.545 33.594	potential temperature (degree C)  19.034 17.681 15.635 14.604 13.965 13.540 12.661 12.103 11.627	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167 24.604 24.768 24.895 25.019 25.234 25.398 25.513 25.670	WMO code 8  geopotential anomaly (m/s) <sup>2</sup> 0.  0.40  0.75  1.08  1.39  1.70  1.98  2.25  2.50  2.74	2 1 1 1 1 1 1 1
80  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638 14.608 13.971 13.547 12.669 12.112 11.637 10.857 10.584 9.699	31 16.8 N  salinity  33.501 33.454 33.405 33.327 33.318 33.365 33.417 33.491 33.524 33.545 33.594 33.790	potential temperature (degree C)  19.034 17.681 15.635 14.604 13.965 13.540 12.661 12.103 11.627 10.846 10.572 9.685	knots 2  sigma-theta (kg/m³)  23.868 24.167 24.604 24.768 24.895 25.019 25.234 25.398 25.513 25.670 25.757	WMO code 8  geopotential anomaly (m/s) <sup>2</sup> 0.  0.40  0.75  1.08  1.39  1.70  1.98  2.25  2.50  2.74  2.98	2 1 1 1 1 1 1 1 1 1
80  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638 14.608 13.971 13.547 12.669 12.112 11.637 10.857 10.584 9.699 9.258	31 16.8 N  salinity  33.501 33.454 33.405 33.327 33.318 33.365 33.417 33.491 33.524 33.545 33.594 33.790 33.911	potential temperature (degree C)  19.034 17.681 15.635 14.604 13.965 13.540 12.661 12.103 11.627 10.846 10.572	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167 24.604 24.768 24.895 25.019 25.234 25.398 25.513 25.670 25.757 26.060	WMO code 8  geopotential anomaly (m/s) <sup>2</sup> 0.  0.40  0.75  1.08  1.39  1.70  1.98  2.25  2.50  2.74  2.98  3.49	2 1 1 1 1 1 1 1 1 1 1 1
80  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638 14.608 13.971 13.547 12.669 12.112 11.637 10.857 10.584 9.699 9.258 8.611	31 16.8 N  salinity  33.501 33.454 33.405 33.327 33.318 33.365 33.417 33.491 33.524 33.545 33.594 33.790	potential temperature (degree C)  19.034 17.681 15.635 14.604 13.965 13.540 12.661 12.103 11.627 10.846 10.572 9.685 9.242	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167 24.604 24.768 24.895 25.019 25.234 25.398 25.513 25.670 25.757 26.060 26.227	WMO code 8  geopotential anomaly (m/s) <sup>2</sup> 0. 0.40 0.75 1.08 1.39 1.70 1.98 2.25 2.50 2.74 2.98 3.49 3.97	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
80 depth (m) 0 10 20 30 40 50 60 70 80 90 100 125 150 175 200	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638 14.608 13.971 13.547 12.669 12.112 11.637 10.857 10.857 10.584 9.699 9.258 8.611 8.383	31 16.8 N  salinity  33.501 33.454 33.405 33.327 33.318 33.365 33.417 33.491 33.524 33.545 33.594 33.790 33.911 33.966 33.999	potential temperature (degree C)  19.034 17.681 15.635 14.604 13.965 13.540 12.661 12.103 11.627 10.846 10.572 9.685 9.242 8.593	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167 24.604 24.768 24.895 25.019 25.234 25.398 25.513 25.670 25.757 26.060 26.227 26.373	WMO code 8  geopotential anomaly (m/s) <sup>2</sup> 0. 0.40 0.75 1.08 1.39 1.70 1.98 2.25 2.50 2.74 2.98 3.49 3.97 4.40	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
80  depth (m)  0 10 20 30 40 50 60 70 80 90 100 125 150 175	julian: GMT 192: 2:38 temperature (degree C) 19.034 17.683 15.638 14.608 13.971 13.547 12.669 12.112 11.637 10.857 10.584 9.699 9.258 8.611	31 16.8 N  salinity  33.501 33.454 33.405 33.327 33.318 33.365 33.417 33.491 33.524 33.545 33.594 33.790 33.911 33.966	potential temperature (degree C)  19.034 17.681 15.635 14.604 13.965 13.540 12.661 12.103 11.627 10.846 10.572 9.685 9.242 8.593 8.362	knots 2 sigma-theta (kg/m <sup>3</sup> ) 23.868 24.167 24.604 24.768 24.895 25.019 25.234 25.398 25.513 25.670 25.757 26.060 26.227 26.373 26.434	WMO code 8  geopotential anomaly (m/s) <sup>2</sup> 0. 0.40 0.75 1.08 1.39 1.70 1.98 2.25 2.50 2.74 2.98 3.49 3.97 4.40 4.82	1 1 1 1 1 1 1 1 1 1 1 1 1 1







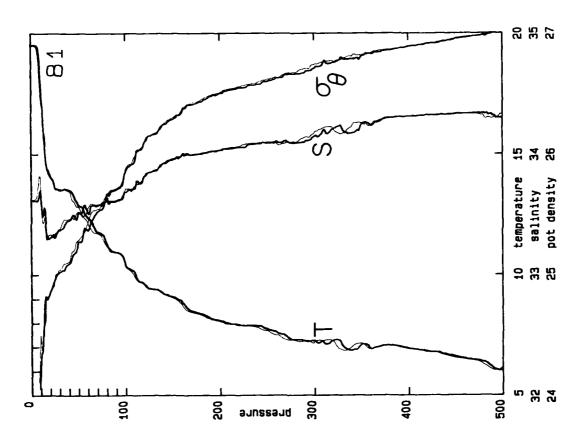
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

TO BE A SECOND OF THE SECOND BEASES OF THE SECOND S

BESSET MANAGEM (STEEDERS BETTEEN STEEDERS INCHESSES) INCHESSES

#### FRONTS I

station	date: time julian: GMT	latitude	longitude	wind speed knots	wind direction WMO code	
81	192: 3:46	31 25.8 N	118 36.8 W	1	3	
depth	temperature	salinity	potential	sigma-theta	geopotential	flag
(m)	(degree C)		temperature (degree C)	(kg/m <sup>3</sup> )	anomaly (m/s) <sup>2</sup>	
0	19.512	33.615	19.512	23.833	0.	2
10	18.123	33.700	18.121	24.248	0.40	1
20	14.073	33.305	14.070	24.864	0.73	1
30	13.535	33.371	13.531	25.025	1.03	1
40	13.507	33.452	13.501	25.094	1.32	1
50	12.892	33.502	12.885	25.256	1.60	1
60	12.353	33.519	12.345	25.374	1.87	1
70	11.766	33.573	11.757	25.527	2.12	1
80	11.253	33.644	11.243	25.676	2.37	1
90	10.926	33.613	10.915	25.711	2.60	1
100	10.361	33.707	10.349	25,883	2.82	1
125	9.419	33.849	9.405	26.152	3.33	1
150	9.062	33.956	9.046	26,294	3.79	1
175	8.425	33.995	8.407	26,424	4.21	1
200	8.074	34.031	8.054	26,505	4.61	1
225	7.884	34.054	7.862	26,552	4.99	1
250	7.703	34.093	7.678	26,609	5.37	1
300	7.225	34.152	7.196	26,724	6.08	1
400	6.903	34.308	6.865	26,892	7.38	1
500	6.123	34.314	6.079	27,001	8.55	1



# FRONTS LEG II STATION AND CAST DESCRIPTION

								Cal	COFI
		Date	Cast	Latitude	Longitude	Time		Line 5	Station
Sta.	Cast	1985	Type	° N	°W	GMT	Remarks	(com	puted)
			-						
1	1	13 Jul 85	Nis	31°08.2′	121°11.1′	1840	6 Btle prodo	92.9	83.3
2	4	14 Jul 85	Nan	30°49.7′	121°23.0′	0208	20 Btle sp chlor	93.8	87.9
2	8	14 Jul 85	Nan	30°49.2′	121°18.0′	1100	20 Btle hydro	94.0	87.0
2	9	14 Jul 85	Nan	30°50.2′	121 ° 20.2 ′	1329	12 Btle phyto	93.9	87.3
2	10	14 Jul 85	Nan	30°50.3′	121°19.5′	1607	20 Btle hydro	93.9	87.1
2	11	14 Jul 85	Nis	30°50.2′	121°19.8′	1827	8 Btle prodo-ClCESE	93.9	87.2
2	12	14 Jul 85	Nis	30°50.9′	121°19.9′	1906	6 Btle prodo	93.8	87.1
3	4	15 Jul 85	Nan	31°08.2′	121°10.8′	1103	20 Btle hydro	92.9	83.2
4	1	15 Jul 85	Nan	31 ° 20.2 ′	121°03.4′	1358	20 Btle hydro	92.3	80.3
5	1	15 Jul 85	Nis	31°35.7′	120°55.2′	1709	8 Btle prodo-CICESE	91.5	<b>76</b> .8
5	2	15 Jul 85	Nan	31°35.6′	120 ° 55.5 ′	1800	20 Btle hydro	91.5	76.9
5	3	15 Jul 85	Nis	31°35.8′	120°55.8′	1858	6 Btle prodo	91.5	76.9
6	1	15 Jul 85	Nan	31°44.8′	120°50.1′	2245	20 Btle hydro	91.0	74.7
7	4	16 Jul 85	Nan	31°54.8′	120°45.3′	0310	20 Btle hydro	90.5	<b>72.6</b>
8	1	16 Jul 85	Nan	32°08.9′	120°36.3′	0614	20 Btle hydro	89.8	69.1
9	4	16 Jul 85	Nan	32 ° 20.8 ′	120°31.2′	1115	20 Btle hydro	89.1	66.7
10	1	16 Jul 85	Nan	32°40.1′	120°20.0′	1442	20 Btle hydro	88.1	62.2
10	2	16 Jul 85	Nis	32 ° 38.7 ′	120°21.8′	1704	6 Btle prodo-CICESE	88.2	62.7
10	3	16 Jul 85	Nis	32°38.0′	120°21.7′	1813	6 Btle prodo	<b>88.2</b>	62.8
10	8	17 Jul 85	Nan	32°40.1′	120°19.8′	0137	12 Btle phyto	88.1	62.2
10	11	17 Jul 85	Nan	32°40.0′	120°20.5′	1006	20 Btle hydro	88.1	62.3
11	2	17 Jul 85	Nan	32°21.6′	120°32.0′	1413	20 Btle hydro	89.0	66.8
12	1	17 Jul 85	Nis	32°10.0′	120°36.7′	1647	8 Btle prodo-CICESE	89.7	69.1
12	2	17 Jul 85	Nan	32 ° 09.8 ′	120°37.3′	1738	20 Btle hydro	89.7	69.2
12	3	17 Jul 85	Nis	32 ° 09.7 ′	120°37.8′	1823	6 Btle prodo	89.7	69.3
13	2	17 Jul 85	Nan	31°54.6′	120°44.6′	2226	20 Btle hydro	90.5	72.5
14	2	18 Jul 85	Nan	31°44.7′	120°50.6′	0124	20 Btle hydro	91.0	74.8
15	2	18 Jul 85	Nan	31°34.9′	120°55.8′	0409	20 Btle hydro	91.5	77.0
16	2	18 Jul 85	Nan	31 ° 21.1 ′	121 ° 03.8 ′	0742	20 Btle hydro	92.3	80.3
17	2	18 Jul 85		31 ° 08.2 ′	121°10.2′	1105	20 Btle hydro	93.0	83.1
18	1	18 Jul 85		30 ° 49.7 ′	121°19.3′	1424	20 Btle hydro	93.9	87.2
18	2	18 Jul 85		30 ° 49.6 ′	121 ° 20.6 ′	1650	8 Btle prodo-CICESE		87.4
18	4	18 Jul 85	Nis	30°47.9′	121 ° 19.2 ′	1904	6 Btle prodo	94.1	87.4
18	6	19 Jul 85	Nan	30 ° 50.2 ′	121°20.5′	0123	11 Btle phyto	93.9	87.3
18	9	19 Jul 85	Nan	30°49.7′	121°19.9′	0903	20 Btle hydro	93.9	87.3
19	2	19 Jul 85	Nan	31 ° 08.2 ′		1308	20 Btle hydro	92.9	83.2
20	2	19 Jul 85		31°21.8′		1636	8 Btle prodo-CICESE		80.1
20	3	19 Jul 85		31 ° 22.0 ′	121°03.5′	1727	20 Btle hydro	92.2	80.1
20	4	19 Jul 85		31 ° 22.4 ′		1819	6 Btle prodo	92.2	80.1
21	1	19 Jul 85		31°35.3′	120 ° 55.2 ′	2009	11 Btle phyto	91.5	76.9
21	3	19 Jul 85		<b>31°35.</b> 0′	120 ° 56.2 ′	2138	20 Btle hydro	91.5	77.1
22	1	19 Jul 85		31 ° 44.8 ′	120°49.8′	2342	11 Btle phyto	91.1	74.7
22	3	20 Jul 85	Nan	31 ° 44.8 ′	120°50.8′	0116	20 Btle hydro	91.0	74.9

## FRONTS LEG II STATION AND CAST DESCRIPTION

Sta.	Cast	Date 1985	Cast Type	Latitude ° N	Longitude ° W	Time GMT	Remarks	Line	COFI Station puted)
23	1	20 Jul 85	Nan	31 ° 55.2 ′	120°44.3′	0321	11 Btle phyto	90.5	72.3
23	3	20 Jul 85	Nan	31°54.7′	120°46.0′	0448	20 Btle hydro	90.5	72.7
24	2	20 Jul 85	Nan	32°09.3′	120°38.3′	0835	20 Btle hydro	89.7	69.5

RV NEW HORIZON	FRONTS LEG II	STATION 2 >

	TUDE 19.2 N	LONGITUDE 121 18.0 W	DAY/MO/YR 14/07/#5	MESSENG 1100 G		POTTOM		EED W		WEATHER 2	BAROMI 1014.2		DRY 6.7 C 1		LOUD AM	1 TYPE 57
CAS	DEPTH	TEMP Deg C	POT TEMP DEG C	SALINITY	SIGMA THE TA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	\$103 UM/L	P04 UM/L	NO3 UM/L	NO2 U#/L	CHL-A UG/L	PH#EO UG/L	PPESS 0.8#k
1	9 IS 1 10 IS	19.01	19.01 19.01 19.01	33.579 33.579 33.581	23.935 23.935 23.936	396.3 396.3 396.5		5.42 5.42 5.43	102.1 102.1 102.3	2.3	.32	.3	.00	.08	.01	( 1
1	11 20 ISI 30 VSI	19.01	19.01 18.60 18.14	33,581 33,537	23.936	396.5 390.2	-043 -079	5.43 5.48	102.3	2.3	.32	.3	.00	.08	.01	11 20 30
1	32 42	18.06 15.83	18.06 15.82	33.491 33.482 33.354	24.096 24.523	383.3 3*2.0 341.5		5.63	103.8	2.1	.33	.3	.01	.09	.01	32 42 50
!	52	15.27 15.01	15.29 15.26 15.00	33.356 33.356 33.353	24.642 24.649 24.703	330.6 320.8 324.9		6.00 6.02 6.03	105.0 105.3 105.0	2.1	.33	.2	.00	.10	.01	57 62 77
1	73 75 ISI	14.02	14.45 14.34 14.01	33.315 33.310 33.299	24.792 24.812 24.872	314.9 309.3	.262 .269 .293	6.05	103.6	2.5	.36	.5	.00	.14	.07	76 93
1	94 190 ISI 103	13.49	13.77 13.57 13.47	33.289 33.286 33.285	24.913 24.952 24.971	305.7 302.3 300.4	.346	5.97 5.92 5.89	101.3 100.1 99.3	2.4	.37 .40	.3	.00	.19	.12	94 101 103
1	115 125 IS 133	11.25	12.68 12.32 11.86	33.371 33.422 33.485	25.195 25.304 25.439	279.4 269.1 256.3		5.43 5.23 4.99	90.1 86.1 81.4	4.8 8.2	.61 .84	4.3 8.7	.05	.25	.16	119 126 134
1	150 IS 159 184	10.93 9.72	11.17 10.61 9.69	33.527 33.547 33.740	25.599 25.679 26.020	241.3 233.9 201.7	.481 .504 .558	4.80 4.68 3.67	77.2 74.7 57.2		1.12	13.4 21.1	.01 .01	.05	.07	151 160 165
1	200 IS 211 250 IS	8.27	9.21 8.94 8.24	33.869 33.949 33.974	26.199 26.306 26.433	184.9 174.9 163.3	.674	3.38 3.26 2.7#	52.2 50.1 42.0	31.2	1.89	25.5	.01			201 212 252
1	300 ISI 311 400 ISI	7.53 L 6.31	7.60 7.50 6.28	34.062 34.089 34.114	26.595 26.632 26.817	145.4 145.1 129.0	.752 .769 .890	2.28 2.18 1.45	33.9 32.4 21.0	49.8	2.40	32.4	.01			302 313 403
1	420 500 ISI 521	5.43	6.05 5.49 5.39	34.116 34.173 34.189	26.848 26.962 26.987	125.1 114.9 112.6	.914 1.011 1.034	1.33 1.09 1.06	19.1 15.5 15.0	71.8 86.1	2.90 3.15	39.0 41.8	.oc .oo			4 <i>72</i> 504 524
1	600 IS 700 IS 780	4.49	5.03 4.66 4.43	34.264 34.351 34.416	27.088 27.199 27.276	103.7 93.8 87.1	1.120 1.219 1.292	.88 .73 .67		110.9	3.41	44.7	.00			605 706 746
1	700 IS 1000 IS 1645		4.37 3.76 3.64	34.426 34.491 34.493	27.291 27.406 27.420	85.7 75.6 74.4	1.309 1.470 1.504	.69 .89 .94	9.5 12.2 12.8		3.31	44.9	.00			°67 1009 1054

RV NFW HORIZON FRONTS LEG II STATION 2 10

	TUDE 50.3 N	LONGITUDE 121 19.5 W	DAY/MO/YR 14/07/85	MESSENG 1607 6		*0110		PFED W/ 9 KT 330		WEATHER ?	BAROM:		8RY 16.7 C		8/9	1 TYPE SC
CASI	HT43∪ 1 M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	\$103 UM/L	₽04 UM/L	NO3 UM/L	NOS	CHL-A UG/L	PHAEO UG/L	PPFSS D.BAK
	0.15	19.58	19.08	33.623	23.949	394.9	.000	5.40	101.9							0
1	1	19.08	19.08	33.623	23.949	394.9		5.40	101.9		.40	.1	.00	.11	.01	1
	10 IS	L 19.08	19.08	33,619	23.947	395.5	.040	5.46	103.0							10
1	11	19.11	19.08	33.619	23.947	305.5	.043	5.47	103.2	2.5	.40	. 1	.00	. 11	.01	11
	20 IS	18.17	18.17	33.513	24.094	391.8	.078	5.64	104.5							50
	30 15	15.05	16.58	33.398	24.314	361.1	.116	5.85	105.7							30
1	3.5	16.61	14.60	33.377	24.363	356.5		5.89	105.4	2.5	.42	. 1	.00		.01	32
1	42	15.69	15.69	33.351	24.551	338.9	.157	6.03	106.4	2.4	.42	.1	.00			42
	50 15	L 15.19	15.19	33.334	24.648	329.5	.184	6.04	105.6							50
1	53	15.05	15.05	33,329	24.675	327.4		6.05	105.4	2.4	.42	.?	.00			53
1	63	14.56	14.55	33.314	24.770	318.4		6.05	104.3		.43	.1	.01		.02	63
1	7.3	14.21	14.20	33.307	24.838	317.3		6.01	102.9		.44	.1	.01	.18	.05	73
	75 ISI		14.15	33.302	24.844	311.8		6.01	102.8							76
1	84	13.99	13.98	33.282	24.865	310.0		6.00	102.2	2.3	.45	.1	.01		.09	P4
1	94	13.68	13.66	33.240	24.928	304.2		5.95	100.7	2.4	-46	. 1	.01	.23	.14	74
	100 15		13.39	33.296	24.996	295.0		5.85	98.4							101
1	104	13.24	13.22	33.308	25.039	291.9		5.77	96.8	3.3	.54	1.1	.11		.?2	104
1	120	12.43	12.42	33.379	25.251	27*.9		5.31	F7.6	6.1	.76	5.3	.05	.22	.23	120
	125 IS		12.18	33.476	25.333	266.3		5.15	84.6							126
1	134	11.78	11.77	33,507	25.474	253.0		4.88	79.5		.95	9.2	.04	.12	.15	135
	150 IS		10.87	33.598	25.707	231.1		4.47	71.5							151
1	160	10.31	10.29	33.651	25.849	217.6		4.19	66.2		1.36	16.4	.02		.03	161
1	185	9.3R	9.36	33.815	26.133	190.9		3.33	51.6	28.0	1.87	23.4	.01	.00	.02	187
	200 15		9.04	33.882	26.237	181.2		3.13	48.1							201
1	712	F.84	7.81	33,930	26.310	174.4		3.02	46.2		5.04	26.1	.01			213
	52C 12		8.15	34.01P	26.481	158.6		2.60	39.2							252
	300 IS		7.43	34.076	26.631	144.9		3.08	30.9							302
1	315	7.28	7.25	34.080	26.660	147.3		1.93	28.5		2.58	33.2	.01			317
	400 15		A . 40	34,144	26.826	127.3		1.07	15.5							403
1	423	6.26	6.22	34.150	26.860	124.3		. • 7	17.6		3.05	34.9	.91			426
	500 I S		5.85	34.238	26.969	114.7		.40	7.0							504
1	527	5.20	5.75	34.265	27.003	111.7		.41	5.9		3.30	41.1	.02			530
	600 IS		5.38	34.312	27.091	104.0		.38	5.5							605
	700 IS		4.89	34.375	27.193	94.8		. 35	4.9							706
1	787	4.54	4.48	34.410	27.266	5P.1		.3?	4.4		1.45	44.4	.01			701
	. OC 18		4.43	34.415	27.276	87.2		.33	4.5							* ^ 7
	1000 15		3.77	34.462	27.398	76.4		.55	7.5							1000
1	1651	3.72	3.64	34.492	27.412	74.6	1.495	-65	8.8	128.5	5.44	44.9	.00			1260

SEED TORROW MADADAD ACCORDED VALUE OF SEED AND ACCORDED TORROW TORROW AND SEED OF THE PROPERTY OF THE PROPERTY

PV	<b>NEW HOR</b>	12 ON				FRO	NTS LEG I	1						STATE	ON !	5 4
	1740E 18.2 M	LONG! 740E 121 10.8 W	DAY/MG/YR 15/07/85	MESSENG 1103 G		0 7 TO M		FED & KT 340		WEATHER 2	BAROM 1013.	FTER 2 MB 1	DRY 16.1 C 1		4/v 40013	T TYPE SC
CASI	DEPTH	TEMP DEG C	POT TEMP DEG C	SALINTTY	SIGMA THFTA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	S103 UM/L	P04 U4/L	NO3 U#/L	407 UP/L	CHL-A U5/L	PHAE0 UG/L	PRESS D.BAR
	5 15		18.84	33.609	24.001	390.1	.000	5.44	102.2		.40	.2	.00			n 2
1	? ,,	18.84 L 18.83	18.84	33.609 33.611	24.001	390.0 389.9	-939	5.46	102.5			• •	.00			1 "
,	11	12.43	1 4 . 82	33,611	24.005	389.9		5.46	102.6		.41	.,	.00			11
	50.15		18.76	33,599	24.013	3#9.5	.078	5.47	102.7							51
	30 IS	L 18.69	18.68	33.585	24.021	389.1	.117	5.49	102.8							\$,
1	32	13.47	18.67	33.582	24.022	389.0	.124	5.49	102.8		.41	.1	.01	.03	-01	32 42
1	47	15.86	15.86	33,376	24.532	340.7	.161	6.00	106.2		.42	.1	.00	.11	-07	50
	511.15		15.25	33.365	24.657	329.3	.188	4.05	105.0		.43	.1	.00	.13	-9*	Śż
1	52	15.23	15.22	33.362 33.332	24.661	328.6 320.5		4.06 6.09	105.4		.45		.01	.17	.04	65
1	63 73	14.72	14.71 14.27	33,313	24.827	313.4	.261	6.07	103.4		.45	.0	.01	. 21	.04	73
3	7: 15		14.27	33.329	24.845	311.7		6.07	103.9		• • •	• •	•	••	• • •	76
1	63	13.4	13.79	35.200	24 917	305.1	.292	6.07	103.0		.49	.1	.01	.19	.37	£3
i	93	17.16	13.14	33.305	25.052	292.3	.322	5.78	96.8		.58	1.4	.15	.21	.12	n t
•	100 15		12.94	33.334	25.115	286.6		5.66	94.4		• • • •			-		101
1	104	12.18	12.86	33.349	25.142	284.1	.353	5.60	93.3		-66	3.1	.10	.19	-22	104
,	110	12.22	12.21	33,396	25,305	268.8		5,19	85.3	6.4	.83	6.5	.10	.15	.10	110
	125 19		11.80	33,449	25.422	257.7		4.99	#1.4							474
1	137	11.21	11.27	33.527	25.581	242.7		4.74	76.4	10.8	1.07	11.1	.04	.09	.15	134
	150 19	L 10.52	10.50	33.631	25.797	227.4		4.30	68.2							151
1	154	10.14	19.16	33.678	25.893	213.3	.491	4.07	64.1		1.43	17.5	.02	.02		
1	185	9.35	J. 33	33.814	26.136	190.6		3.42	52.9		1.79	23.0	.01	.00	.03	186
	200 IS		8.94	33.681	26.252	179.8		3.25	40.6							201 212
•	211	2.71.	3.6	33.924	26.326	172.8	.590	3.16	48.2		2.02	25.9	.01			252
	25° 18		3.03	34.012	26.493	157.4		2.74	41.3							312
	*0 1		7.45	34.069	26.623	145.7		2.20	32.7			52.5	.00			316
1	514	7.14	7.33	34.973	26.643	144.0		2.04	30.2		2.50	32.3	.00			403
	400 15		6.43	34.150	26.826	127.3		1.07	15.6		3.04	38.9	.00			424
1	421	6.26	6.22	34.162 34.197	26.863	124.0		.55	7.9		3.04	30.4	.00			504
	500 15		5.52 5.33	34,206	26.978 27.008	113.4		.51	7.2		3.22	42.1	.00			528
1	525	5.37	4.97	34.266	27.097	102.7		.46	6.4		3.24	46.1	.00			305
	700 IS		4.03	34.200	27.200	93.7		.38	5.3							706
1	700 15	4.52	4.46	34,416	27.273	67.5		.37		111.8	3.44	44.2	.00			793
,	400.14		4.42	34.423	27.243	86.6		.33	4.6		,	, - • -				£17
	1'01 1		3.81	34.491	27.401	74.3		.71	9.8							1909
1	1053	3.77	3.65	34.495	27.420	74.6		80		128.5	3.43	44.5	.00			4742

FRONTS LEG II RV NFW HORIZON DAY/MO/YR 15/07/85 MESSENGER 1358 GNT W3 ND 330 SPEED TX 90 WAVES 350 05 REATHER S 121 03.4 TEPF DEG C POT TEMP DYN HT OXYGE4 ML/L CHL-A UG/L S103 18.50 18.50 18.51 17.70 17.70 15.52 17.70 15.52 13.52 14.22 13.52 13.53 13.53 10.34 19,50 19,50 19,50 17,56 17,76 15,95 15,57 15,49 14,26 14,26 14,26 11,3,57 11,5, 23. 999
23. 996
23. 996
24. 049
24. 115
24. 507
24. 507
24. 602
24. 732
24. 825
24. 825
24. 914
25. 341
25. 341
25. 341
25. 341
25. 341
26. 261
26. 664
27. 102
27. 102
27. 102
27. 271
27. 402
27. 402 0 0 ISL 11 ISL 12 ISL 30 ISL 31 ISL 33 ISL 33 SO ISL 36 SO ISL 36 ISL 37 ISL 38 I 33, 495 33, 495 33, 495 33, 493 33, 473 33, 473 33, 473 33, 373 33, 373 33, 373 33, 373 33, 373 33, 373 33, 373 34, 302 37, 5.47 5.47 5.47 5.57 5.57 5.57 6.01 6.04 102-0 102-10 102-5 103-3 390.3 390.3 390.3 390.3 390.4 .00 .07 .01 2.1 .34 .3 .00 .07 .01 .09 .0? :0? 0.5 .00 00. .35 :4 .02 .02 .04 .19 .11 .15 2.0 .35 .36 .38 .4 .00 .00 .00 .95 ,11 .17 2.0 .30 .40 .00 .3 .4 ,13 ,15 1.0 .0# .99 .21 .18 9.4 10.5 .02 .11 .10 16.9 22.3 .01 .01 .03 00. .06 16.9 25.0 25.5 .01 52.7 .01 39.4 .00 42.0

RV NEW HORIZON		FRO	NTS LEG I	ı						STATIO	N 5	. ?
LATITUDE LONGITUDE DAY/MO/YR 31 35,6 N 120 55,5 W 15/07/85	MESSENGER B 1300 GMT	оттон	WIND SP6 340 08	EED WA KT 350		JEATHER 2	BAROPE 1014.9		DRY 16.4 C 1		LOUD 44	TYPE SC
CAST DEPTH TEMP POT TEMP M DEG C DEG C	SALINITY SIGMA THETA	4VA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO 3 U#/L	NOS NOS	CHL-A UG/L	PHAED UG/L	PRESS D.BAR
7 ISL 18.19 18.19 1 1 18.19 18.19	33.620 24.169 33.620 24.169	374.0 374.0	.000	5.50 5.50	102.1	1.9	.31	. 2	.00	.09	.09	1
10 ISL 18.19 18.17 1 11 18.17 18.17	33.617 24.172 33.617 24.172	374.0 374.0	.037	5.50 5.50	102.0	2.2	.31	.2	.00	.08	.01	19 11
20 ISL 18.13 18.12 30 ISL 18.07 18.07 1 32 18.06 18.06	33.615 24.182 33.613 24.194 33.612 24.196	373.4 372.7 372.5	.075 .112 .119	5.52 5.55 5.55	102.3 102.7 102.7	2.1	.31	.2	.00	.09	.01	20 30 32
1 42 15.72 15.71 50 ISL 15.36 15.35	33.456 24.626 33.456 24.690	331.7 325.8	.154	5.98	105.6	2.1	.32	.?	.00	.12	.0?	42 50
1 53 15.24 15.23 1 63 14.57 14.56	33.429 24.712 33.372 24.812	323.8 314.6	.190	6.01 6.08	105.1	2.1	.33	.5	.00	.18	.03	53 63
1 73 13.96 13.95 75 ISL 14.00 13.99 1 84 14.07 14.06	33.359 24.930 33.396 24.951 33.520 25.032	303.5 301.6 294.7	.253 .260 .285	6.04 5.95 5.63	102.9 101.5 96.2	2.5 3.4	.39	1.1	.01	.19	.17	73 76 84
1 94 13.10 13.18 100 ISL 12.44 12.42	33.520 25.032 33.444 25.153 33.434 25.293	287.8	.314	5.41 5.38	94.1 88.8	4.3	.59	3.6	.21	.19	.12	94 101
1 104 12.03 12.02 1 119 11.25 11.24	33.428 25.365 33.539 25.595	262.7	.341	5.22	85.5 74.8	7.0 11.3	.F4 1.08	#.2 12.3	.03	.16	.13	104
125 ISL 11.01 10.99 1 134 10.60 10.59	33.57D 25.664 33.620 25.775	234.6	.416	4.52	72.4 68.8	15.3	1,25	15.5	.01	.05	.08	126 135
150 ISL 9.89 9.86 1 160 9.47 9.46 1 186 9.03 9.01	33.719 25.975 33.781 26.091 33.875 26.236	205.3 194.4 190.9	.470	3.88 3.61 3.39	60.7 56.0 52.1	24.3 28.9	1.64	21.8	.00	.01	.04	151 161 187
200 ISL 8.76 8.74 1 212 8.53 8.50	33.923 26.316 33.959 26.381	173.6	.543	3.26 3.15	49.9 47.9	33.7	1.95	26.1	.00	.00	.92	201 213
250 ISL 7.92 7.90 300 ISL 7.27 7.24	34.021 26.520 34.059 26.644	154.8	.625	2.76	41.4 33.1							252 302
1 314 7.12 7.09 400 ISL 6.27 6.23	34.059 26.666 34.104 26.815	141.6 127.1	.720 .835	1.26	30.8 18.2	52.9	2.48	33.1	.01			316 403
1 421 5.10 4.06 500 TsL 5.59 5.55 1 524 5.47 5.43	34.114 26.845 34.195 26.972 34.221 27.008	125.4 114.0 110.8	.863 .957 .983	1.08 .60 .50	15.5 8.6 7.1	71.0 87.1	2.94 3.24	38.6	.01			474 504 527
1 524 5.47 5.43 600 ISL 5.15 5.10 700 ISL 4.79 4.74	34.289 27.101 34.365 27.201	102.5	1.065	.44	6.2	01.1	3.24	• • • •				605 706
1 782 4.56 4.50 200 ISL 4.50 4.44	34.413 27.266 34.423 27.281	86.8 86.8	1.237	.31 .32	4.3	109.1	3.43	44.2	.00			788 807
1000 1SL 3.F4 5.77 1 1041 3.71 3.64	34.491 27.405 34.495 27.422	75.8 74.2	1.416	.54	7.4 8.6	126.1	3.43	44.7	.00			1969 1050
RV NEW HORIZON  LATITUDE LONGITUDE DAY/MO/YR	MESSENGER &	fko attam	NTS LEG 1:		VES I	JEATHER	BAROMF	TER	ORY	STATIO	N 6	
LATITUDE LONGITUDE DAY/MO/YR 31 44.9 N 120 5C.1 W 15/37/85	2245 GMT	OTTOM	WIND SPI 340 06	EED WA KT 350	04	2	1014.6	9B 1	17.2 C 1	uet c 5.6 c	L GUD 44 8/8	IT TYPE SC
LATITUDE LONGITUDE DAY/MO/YR 31 44.9 N 120 5C.1 W 15/27/85  CAST DEPTH TEMP POT LEMP M DEG C DEG C	2245 GMT SALINITY SIGMA THETA	OTTOM SVA	WIND SPI 340 No DYN HT	EED WA	OAY PCT					WET C	LOUD 44	T TYPE SC PRESS D.BAR
LATITUDE LONGITUDE DAY/MO/YR 31 44.9 N 120 5C.1 W 15/27/85  CAST DEPTH TEMP POT LEMP M DEG C DEG C  U ISL 17.9 17.98 1 2 17.99 17.99	2245 GMT  SALINITY SIGMA THETA  33.478 24.112 33.478 24.112	SVA 379.6 379.4	WIND SPI 340 06 DYN HT .000 .008	EED WA KT 350 OXYGEN ML/L 5.54 5.54	04 0XY PCT 102.3 102.3	2 5103	1014.6	MB 1	17.2 C 1 NO2	WET C 5.6 C	LOUD AM 8/8 Phaeo	TTYPE SC PRESS D.BAR O.2
LATITUDE LONGITUDE DAY/MO/YR 31 44,9 N 170 5C,1 W 15/37/85  CAST DEPTH TEMP POT 1EMP POF 6C  0 ISL 17.90 17.90 1 2 17.91 17.97 1 12 17.97 17.97 1 12 17.97 17.97	2245 GRT  SALINITY SIGNA THETA  33.478 24.112 33.478 24.122 33.487 24.122 33.480 24.125	379.6 379.4 379.4 376.7 376.7	WIND SPI 340 06 DYN HT .000 .008 .038	EED WA KT 350 OXYGEN ML/L 5.54 5.54 5.58 5.60	04 0XY PCT 102.3 102.3 103.0 103.4	2 \$103 UM/L	1014.6 P04 UN/L	NO3 UM/L	17.2 C 1 NO2 UM/L	LET C 5.6 C CHL-A UG/L	LOUD AM 8/8 Phaeo UG/L	TTTPE SC PHESS D.BAR D. 2 10
LATITUDE LOWGITUDF DAY/MO/YR 31 44.9 N 120 5C.1 W 15/27/85  CAST DEPTH TEMP POT 1EMP M DEG C DEG C  0 ISL 17.9r 17	2245 GRT  SALINITY SIGNA THETA  33.478 24.112 33.477 24.122 33.480 24.125 33.480 24.260 33.437 24.220	379.6 379.4 376.7 378.9 365.9	WIND SPI 340 G6 DYN HT .000 .008 .045 .075	EED WA KT 350 OXYGEN ML/L 5.54 5.54 5.57 5.60 5.78 6.00	0XY PCT 102.3 102.3 103.0 103.4 105.2 106.9	2 \$103 UM/L 2.2	1014.6 P04 UN/L .34	NO3 UM/L	17.2 C 1 NO2 UM/L .00	4ET C 5.6 C CHL-A UG/L .09	PHAFO UG/L .OC	TYPE SC PHESS D.BAR D. BAR
LATITUDE LONGITUDF DAY/MO/YR 31 44.9 N 170 5C.1 W 15/27/85  CAST DEPTH TEMP DEG C DEG C  d ISL 17.9r 17.9r 17.9r 10.1SL 17.9r 17.9r 10.1SL 17.9r 17.9r 10.1SL 17.9r 17.9r 20.1SL 17.9r 17.9r 20.1SL 17.2c 17.25 30.1SL 16.11 16.11 13.3 15.73 14.84 50.1SL 14.81 14.84	2245 GRT  SALINITY SIGNA THETA  33.478 24.112 33.467 24.122 33.467 24.122 33.463 24.260 33.378 74.477 33.361 24.560 33.355 24.724 35.357 24.777	379.6 379.6 379.6 379.6 365.6 365.6 338.8 327.4	WIND SPI 340 06 DYN HT .000 .008 .038 .045 .075 .111 .121 .154	0 XYGEN ML/L 5.54 5.54 5.58 5.60 5.78 6.00 6.07 6.14 6.12	0XY PCT 102-3 102-3 103-0 103-4 105-2 106-9 107-2 106-5	2 \$103 UM/L 2.2 1.9 2.0	1014.6 P04 UN/L .34 .32	NO3 UM/L .4 .4	.00 .00	UET C 5.6 C CHL-A UG/L .09 .09	PHAE0 US/L .00 .01	PRESS D.BAR 0 2 10 12 20 30 33 43 50
LATITUDE LOWGITUDF 15/27/85  CAST DEPTH TEMP DOEG C DEG C 17.99  1 2 17.99  1 2 17.97  1 2 17.97  1 2 17.97  1 2 17.97  1 37 15.17.97  20 15L 17.26  37 15L 16.11  1 33 15.26  1 4.37  1 43 14.87  50 15L 14.57  1 53 14.57  1 53 14.57  1 53 14.57  1 53 14.57  1 53 14.57  1 53 14.57  1 53 14.57  1 53 14.57  1 53 14.57  1 53 14.57  1 53 14.57  1 54 14.69	2245 GHT  SALINITY SIGMA THETA  33.478 24.112 33.497 24.122 33.497 24.122 33.493 24.260 33.356 24.540 33.355 24.724 35.351 24.540 33.355 24.724 35.352 24.707 33.324 24.700	370.6 370.6 370.4 376.7 376.6 365.9 346.6 317.9 316.3	WIND SPI 340 06 DYN HT .000 .008 .038 .045 .075 .111 .121 .121 .177 .185 .216	0 WART 350 0 WYGEN ML/L 5.54 5.54 5.57 5.60 5.78 6.00 6.07 6.14 6.12 6.11	04 0xy PCT 102.3 102.3 103.0 103.4 106.9 107.2 106.5 105.5 105.5 105.5	2 SIO3 UM/L 2.2 1.9 2.0 2.0 2.5	1014.6 P04 UN/L .34 .32 .34 .34 .34	NO3 UM/L .4 .4 .3 .3	.00 .00	UET C 5.6 C CHL-A UG/L .09 .09 .14 .15	.000 44 8/8 PHAFO UG/L .00 .01 .02 .03	T TYPE SC PHESS 0.8AR 0 2 10 12 20 30 33 43 50 53
LATITUDE LOWGITUDF 15/27/85  CAST DEPTH TEMP POT IEMP DE6 C DE6 C   O ISL 17.9r 17.9	2245 GHT  SALINITY SIGMA TMETA  33.478 24.112 33.467 24.122 33.467 24.125 33.463 24.260 33.378 24.477 33.361 24.540 33.375 24.777 33.324 24.700 33.477 24.056 33.447 25.056 33.447 25.056	370.6 370.4 370.4 376.7 376.6 365.9 345.6 317.9 316.3 301.6 201.5	WIND SPI 340 00 DYN HT -000 -008 -038 -045 -075 -111 -121 -154 -177 -185 -216 -252	EEO WART 350  OXYGEN MI/L  5.54 5.58 5.60 6.00 6.07 6.14 6.12 6.11 5.94 5.73	04 0XY PCT 102.3 103.0 103.4 105.2 106.9 107.2 106.5 105.2 101.6 98.7	2 SIO3 UM/L 2.2 1.9 2.0 2.0 2.5 3.0	1014.6 P04 UN/L .34 .32 .34 .34 .37 .43	NO3 UM/L .4 .4 .3 .3 .3	.00 .00 .00	UET C 5.6 C CNL-A UG/L .09 .09 .14 .15	.000 AM 8/A PHAEO UG/L .00 .01 .07 .03 .04 .08	17 TYPE SC PHESS 0.8AR 0 2 10 12 20 30 33 43 50 63 73
LATITUDE LONGITUDF 31 44.5 N 120 5C.1 W 15/27/85  CAST DEPTH TEMP POT 1EMP DE6 C DE6 C	2245 GHT  SALINITY SIGMA THETA  33.47R 24.112 33.477 24.112 33.467 24.122 33.467 24.122 33.463 24.260 33.453 24.260 33.355 24.724 35.357 24.777 33.361 24.549 33.355 24.724 35.357 24.777 33.3424 24.947 33.424 24.947 33.424 24.947	370.4 370.4 370.4 36.9 36.9 34.6 338.8 322.4 316.3 301.6	.000 .000 .000 .000 .000 .005 .015 .111 .121 .154 .177 .185 .216 .252 .274 .301	0 WART 350 0 WYGEN ML/L 5.54 5.54 5.58 5.60 5.78 6.00 6.07 6.14 6.11 5.94 5.78	04 0XY PCT 102.3 103.0 103.4 105.2 106.9 107.2 106.5 105.5 105.6 107.2 108.7	2 SIO3 UM/L 2.2 1.9 2.0 2.0 2.5	1014.6 P04 UN/L .34 .32 .34 .34 .34	NO3 UM/L .4 .4 .3 .3	.00 .00	UET C 5.6 C CHL-A UG/L .09 .09 .14 .15	.000 44 8/8 PHAFO UG/L .00 .01 .02 .03	17 TYPE SC PHESS D.BAR 0 2 10 12 20 30 33 43 50 53 63 73
LATITUDE LONGITUDF 31 44.9 N 170 5C.1 W 15/27/85  CAST DEPTH TEMP DE6 C 0F6 C  J ISL 17.9 17.97 17.97 1 2 17.97 17.97 17.97 1 12 17.97 17.97 20 15L 17.97 17.97 20 15L 17.97 17.97 1 13 17.97 17.97 20 15L 17.10 17.97 1 1.33 15.74 15.73 1 43 14.84 14.84 50 15L 16.97 14.97 1 55 14.57 14.57 1 55 14.57 14.57 1 55 14.57 14.57 1 57 18.57 13.56 1 75 15L 13.57 13.56 1 75 15L 13.57 13.56 1 75 15L 13.57 13.56 1 93 17.75 13.56 1 93 17.75 13.56 1 100 15L 12.15 12.13	2245 GHT  SALINITY SIGNA THETA  33.478 24.112 33.467 24.122 33.467 24.125 33.463 24.260 33.378 74.477 33.361 24.560 33.355 24.724 33.355 24.724 33.364 25.087 33.467 25.056 33.364 25.087 33.465 25.087 33.465 25.087 33.566 25.513 33.566 25.513	370.6 370.4 370.4 377.7 377.6 364.9 344.6 337.8 322.4 317.7 310.3 301.6 277.9 278.8 278.9 278.8 278.9	.000 .000 .000 .000 .000 .000 .000 .00	EED WART 350 ONYGEN MI/L 5.54 5.54 5.56 5.60 5.78 6.00 6.11 5.94 6.12 5.73 5.12 4.87 4.69	0XY PCT 102.3 102.3 103.0 103.4 105.2 106.5 107.2 106.5 105.2 101.6 98.7 98.7 80.0 77.6	2 S103 UM/L 2.2 1.9 2.0 2.5 3.0	1014.6 P04 UN/L .34 .32 .34 .34 .37 .43	NO3 UM/L .4 .4 .3 .3 .3 .4 .9	.00 .00 .00 .00 .00	UET C 5.6 C CHL-A UG/L .09 .09 .14 .19 .21 .23	.00 AM R/A PHAEO US/L .00 .01 .07 .03 .04 .08 .09 .11	PHESS D. BAR 0 2 110 122 20 33 43 50 53 73 73 73 101 110 110 110 110 110 110 110 110 11
LATITUDE LONGITUDF 31 44.9 N 170 5C.1 W 15/27/85  CAST DEPTH TEMP DE6 C 0F6 C   J ISL 17.9 17.97 17.97  1 2 17.97 17.97 17.97  1 12 17.97 17.97 17.97  20 15L 17.97 17.97  1 12 17.97 17.97  1 13 3 15.7 15.73  1 43 14.84  50 15L 16.11 16.11  33 15.7 15.73  1 45 14.84  50 15L 16.57 14.57  1 55 14.57  1 55 14.57  1 55 14.57  1 55 14.57  1 55 14.57  1 68 15.57  1 75 15.51  1 85 15.56  75 15L 13.57  1 10.51  1 10.61  1 11.30  1 10.61  1 11.30  1 11.30  1 12.15  1 11.30  1 12.15  1 11.00  1 11.30  1 12.15  1 11.00  1 17.00  1 17.00	2245 GRT  SALINITY SIGNA THETA  33.478 24.112 33.487 24.122 33.487 24.122 33.483 24.260 33.335 24.724 33.351 24.549 33.355 24.724 33.352 24.900 33.477 33.24 24.900 33.477 33.547 25.056 33.557 25.191 33.554 25.298 33.557 25.670 33.559 25.670 33.559 25.670	SVA  370-6 370-7 378-7 378-7 378-6 338-8 327-7 310-3 317-9 310-3 201-5 208-7 2		EED WART 350 ONYGEN MI/L 5.54 5.54 5.57 6.00 6.07 6.14 6.11 5.94 6.11 5.94 7.73 7.12 7.74 7.69 7.76 7.76 7.76 7.76 7.76 7.76 7.76	0XY PCT 102.3 102.3 103.4 105.2 106.5 107.2 106.5 105.6 105.6 105.7 80.8 80.0 75.7 74.0	2 SIO3 UM/L 2.2 1.9 2.0 2.5 3.0 4.9 6.4 9.7	1014.6 P04 UN/L .34 .32 .34 .34 .37 .43	. MB	.00 .00 .00 .00 .00 .00 .00	UET C 5.6 C CHL-A UG/L .09 .09 .14 .15 .10 .21 .21 .23	.00 AM	T TYPE SC PRESS 0.8AR 0.2 20 10 12 20 30 33 45 53 63 53 73 74 63 101 104 114 114 114 114 114 114 114 114
LATITUDE LONGITUDF 31 44.9 N 170 5C.1 W 15/27/85  CAST DEPTH TEMP DEG C 0FG C   J ISL 17.9 17.97 17.97 1 2 17.97 17.97 1 12 17.97 17.97 20 15L 17.97 17.97 20 15L 17.97 17.97 20 15L 17.26 17.57 30 15L 16.11 16.11 1 33 15.74 15.73 1 45 14.84 14.84 50 15L 16.57 14.57 1 55 14.57 14.57 1 55 14.57 14.49 1 63 14.12 14.11 1 73 15.57 15.56 75 15L 13.57 15.56 75 15L 13.57 15.56 1 83 13.56 13.35 1 93 17.95 17.83 100 15L 17.97 1 104 11.70 1 118 11.37 11.80 1 125 15L 11.07 11.80 1 133 10.71 17.70 1 151 151 10.71 17.70 1 151 151 10.71 17.70 1 151 151 10.71 17.70 1 151 151 10.71 17.70 1 151 151 10.71 17.70	2245 GRT  SALINITY SIGMA THETA  33.478 24.112 33.467 24.122 33.467 24.122 33.463 24.260 33.357 24.724 33.357 24.724 33.357 24.772 33.324 24.700 33.324 24.904 33.477 25.056 33.463 25.087 33.557 25.191 33.5580 25.670 33.5580 25.670 33.5580 25.670 33.5580 25.670 33.5682 25.926 33.758 25.070	370_6 370_6 370_4 370_7 376_7 376_9 346_6 327_9 316_3 310_6 201_5 248_6 278_9 268_6 278_9 268_6 278_9 268_6 278_9 268_6		EED WART 350 ONYGEN MI/L 5.54 5.54 5.57 6.00 6.07 6.14 6.12 6.11 5.74 5.73 5.33 5.12 4.76 4.76 4.61 4.47 3.77	0XY PCT 102.3 102.3 103.0 103.4 105.2 106.9 107.2 106.5 105.2 101.6 96.7 96.7 96.7 96.7 75.7 74.2 67.2	2 \$103 UM/L 2.2 1.9 2.0 2.5 3.0 4.9 6.4 9.7 12.0 15.3 23.4	1014_6 P04_UN/L .34 .32 .34 .34 .37 .43 .56 .66 .92 1.08	NO3 UM/L .4 .4 .3 .3 .3 .3 .4 .9 3.6 5.8 10.1 12.8 16.2 21.6	.00 .00 .00 .00 .04 .13 .15 .07 .04 .02 .01	UET C 5-6 CHL-A UG/L .09 .09 .14 .14 .10 .21 .23 .24 .23 .18 .12	2000 AM 8/A PHAEO UG/L .00 .01 .07 .03 .04 .08 .09 .11 .11 .11 .04 .03	T TYPE SC PHESS 0.8AR 0.27 112 22 23 0 33 53 63 776 83 101 114 117 117 117 117 117 117 117 117 11
LATITUDE LONGITUDF 31 44.9 N 170 5C.1 W 15/27/85  CAST DEPTH TEMP DEG C 0FG C	2245 GHT  SALINITY SIGMA THETA  33,47R 24,112 33,467 24,122 33,467 24,122 33,448 24,260 33,377 33,361 24,549 33,377 33,364 24,947 33,361 24,549 33,355 24,724 32,327 24,777 33,364 24,947 33,364 25,087 33,456 25,087 33,557 25,191 33,554 25,288 33,557 25,614 33,557 25,614 33,557 25,614 33,557 25,614 33,577 25,617 33,577 26,617 33,577 26,617 33,977 26,126	379.6 379.6 379.6 376.7 376.7 376.6 357.8 357.8 310.3 301.6 277.9 267.8 278.6	UND SPI 340 06 DYN HT .000 .008 .045 .075 .111 .121 .154 .177 .185 .216 .252 .274 .301 .321 .330 .366 .381 .401 .437 .454 .532	EED SUMERT 350  ONVGEN MI/L  5.54 5.54 5.54 5.60 5.78 6.00 6.07 6.11 6.11 5.94 5.73 5.33 5.33 5.32 4.87 4.76 4.61 4.47 3.97	0X Y PCT 102-3 102-3 102-3 103-4 105-9 106-9 107-2 106-9 107-2 106-9 77-6 77-6 77-6 77-6 77-6 77-6 77-6 7	2 SIO3 UM/L 2.2 1.9 2.0 2.0 2.5 3.0 4.9 6.4 9.7 12.0	1014.6 P04 UN/L .34 .32 .34 .34 .37 .43 .56 .66 .92 1.08	. MB	.00 .00 .00 .00 .00 .00 .00 .00 .00	UET C 5.6 C CNL-A UG/L .09 .09 .14 .15 .19 .21 .23 .24 .23	.000 Am #/# PM#E0 US/L .007 .01 .07 .03 .04 .08 .09 .11 .13 .11	T TYPE SC PHESS 0.8AR 0.27 10.27 20.30 30.35 33.76 83.76 83.104 1154 1155 20.6 1155 20
LATITUDE LONGITUDF 31 44.9 N 170 5C.1 W 15/27/85  CAST DEPTH TEMP DE6 C 076 C C C C C C C C C C C C C C C C C	2245 GHT  SALINITY SIGMA THETA 33,47R 24,112 33,467 24,122 33,467 24,122 33,445 24,260 33,478 24,164 33,351 24,540 33,351 24,540 33,352 24,724 32,327 24,777 33,324 24,947 33,342 24,947 33,342 24,947 33,353 25,567 33,465 25,567 33,550 25,567 33,550 25,567 33,550 25,567 33,550 25,577 33,577 25,614 33,580 25,577 33,577 25,614 33,580 25,577 33,577 25,614 33,580 25,578 33,580 25,578 33,580 25,578 33,580 25,578 33,580 25,578 33,580 25,578 33,580 25,578 33,580 25,578 33,580 25,578 33,580 26,277 33,577 26,617 33,577 26,617 33,577 26,617 33,577 26,617 33,617 26,788 34,687 26,579 34,617 26,788	370.4 370.4 370.4 377.7 378.6 352.4 310.3 310.6 278.6		EED UAKET 350 ONYGEN MI/L 5.54 5.54 5.54 5.60 5.78 6.00 6.07 6.14 6.12 5.94 5.73 5.12 4.76 4.61 4.47 3.70 3.70 3.70 3.70 3.70 3.70 3.70 3.7	0XY PCT 102.3 103.0 103.0 103.0 105.2 106.5 107.6 106.5 105.2 106.5 105.2 106.5 105.2 106.5 107.6 77.6 77.6 77.6 77.6 77.6 77.6 77.6	2 SIO3 UM/L 2.2 1.9 2.0 2.5 3.0 4.9 6.4 9.7 12.0 15.3 23.4 29.9	1014_6 P04 UM/L .34 .32 .34 .34 .37 .43 .56 .65 .92 1.08 1.31	.4 .4 .3 .3 .3 .4 .9 .9 .1 .1 .2 .8 .1 .1 .2 .8 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	17.2 C 1 NO2 UM/L .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	UET C 5-6 CHL-A UG/L .09 .09 .14 .14 .10 .21 .23 .24 .23 .18 .12	2000 AM 8/A PHAEO UG/L .00 .01 .07 .03 .04 .08 .09 .11 .11 .11 .04 .03	T TYPE SC PHESS 0.8AR 0.27 10.8AR 12.29 30.343 503.763 763 763 104 1126 136 137 164 151 150 175 201 17
LATITUDE LONGITUDF 31 44.9 N 170 5C.1 W 15/27/85  CAST DEPTH TEMP DEG C 076 G C   J ISL 17.9 17.97 17.97 17.97 17.97 17.97 17.97 17.97 17.97 17.97 17.97 17.97 17.97 17.97 17.97 17.97 17.97 19.10 15.11 19.	2245 GHT  SALINITY SIGMA THETA 33.47R 24.112 33.467 24.122 33.467 24.122 33.467 24.122 33.467 24.122 33.463 24.260 33.355 24.724 33.351 24.549 33.355 24.724 33.352 24.797 33.361 24.599 33.355 24.724 33.352 24.797 33.354 25.087 33.452 24.997 33.554 25.087 33.556 25.513 33.557 25.6191 33.557 25.670 34.682 25.670 34.682 26.217 33.976 26.687 33.977 26.136 33.977 26.136 33.977 26.136 33.977 26.137 33.977 26.136 33.977 26.137 33.977 26.137 33.977 26.137 34.038 26.217 33.977 26.136	370.4 370.4 370.4 370.4 376.7 365.6 332.4 310.3 310.6 227.6 227.6 227.6 227.6 227.6 210.0	.000 .000 .000 .000 .000 .000 .000 .00	EED UAKET 350 ONYGEN MI/L 5.54 5.54 5.54 5.60 5.73 6.00 6.14 6.12 5.94 5.73 5.12 4.76 4.61 4.47 3.70 3.70 3.70 3.70 7.70 7.77	0X V V T 102 - 3 103 - 0 107 - 2 101 - 6 105 - 5 105 -	2 SIO3 UM/L 2.2 1.9 2.0 2.5 3.0 4.9 6.4 9.7 12.0 15.3 23.4 29.9	1014_6 P04 UN/L .34 .32 .34 .34 .37 .43 .56 .65 .92 1.31 1.63 1.85	.4 .4 .3 .3 .3 .4 .9 .9 .10 .11 .12 .8 .16 .2 .2 .2 .2 .2 .2 .2 .3 .3 .3 .3 .3 .4 .9 .9 .10 .11 .12 .8 .10 .12 .8 .10 .10 .10 .10 .10 .10 .10 .10 .10 .10	17.2 C 1 NO2 UM/L .00 .00 .00 .00 .00 .00 .00 .01 .01 .01	UET C 5-6 CHL-A UG/L .09 .09 .14 .14 .10 .21 .23 .24 .23 .18 .12	2000 AM 8/A PHAEO UG/L .00 .01 .07 .03 .04 .08 .09 .11 .11 .11 .04 .03	T TYPE SC PHESS 0.8AR 0.27 17 12 29 30 33 30 33 53 63 73 76 83 101 104 151 152 162 252 201 216 201 216 201 201 216 201 216 201 216 201 216 201 216 201 216 201 201 201 201
LATITUDE LONGITUDF 31 44.9 N 170 5C.1 W 15/27/85  CAST DEPTH TEMP DE6 C 0F6 C   J ISL 17.9 17.97 17.97  1 2 17.97 17.97 17.97  1 12 17.97 17.97 17.97  20 1SL 17.97 17.97 17.97  20 1SL 17.5 17.97 17.97  1 12 17.97 17.97  1 13 17.97 17.97  1 13 17.97 17.97  20 1SL 16.11 16.11  1 33 15.1 16.11  1 33 15.1 16.11  1 33 15.5 14.81  1 63 14.81  1 63 14.81  1 63 14.85 14.84  1 63 14.85 14.84  1 73 15.57 15.56  1 75 15.5 13.57 13.56  1 75 15.1 13.57 13.56  1 10.4 11.97 14.11  1 10.4 11.97 11.80  1 10.4 11.97 11.80  1 11.8 11.30  1 12.5 15L 11.07 11.04  1 13.3 10.71 19.70  1 15.6 15L 10.71 19.70  1 15.6 15L 10.71 19.70  20.0 15L 10.71 19.70  20.0 15L 7.87 8.65  1 20.0 8.51 19.49  20.0 15L 7.87 7.87  30.0 15L 7.87 7.87  30.0 15L 7.97 7.65  1 510 7.99 8.51 7.86  3 30.0 15L 7.97 7.26  1 510 7.99 7.16  40.0 15L 4.34 6.33  1 415 6.23 A.19  500 15L 5.22 5.7P	2245 GHT  SALINITY SIGMA THETA  33.47R 24.112 33.467 24.122 33.467 24.122 33.467 24.122 33.467 24.122 33.463 24.260 33.355 24.724 33.351 24.569 33.355 24.724 33.352 24.797 33.354 24.997 33.354 25.087 33.455 25.087 33.556 25.13 33.557 25.0191 33.558 25.670 34.67 25.670 34.67 25.670 33.577 25.670 33.577 25.670 33.577 25.670 33.577 25.670 33.577 25.670 33.577 25.670 33.577 25.670 33.577 25.670 33.577 25.670 33.577 25.670 34.672 26.677 33.773 26.673 34.672 26.673 33.785 26.670 34.672 26.673 34.673 26.673 34.673 26.673 34.673 26.673 34.673 26.673 34.673 26.673 34.673 26.673 34.673 26.673 34.673 26.673 34.673 26.673	370.4 370.4 370.4 370.4 376.7 375.9 345.6 332.4 310.3 310.5 278.6 278.6 278.6 278.6 210.0 201.2 210.0 201.2 117.6 117.6 117.6	UND SPI 340 06 07 N HT	EED WART 350 ONYGEN MI/L 5.54 5.54 5.56 5.60 6.00 6.11 5.94 6.11 5.94 5.73 5.12 4.76 4.61 4.67 4.76 3.97 3.25 3.07 2.99 2.57 1.97 1.97	04 0x y PCT 102-3 103-0 105-2 106-2 106-5 106-5 106-5 106-5 106-5 106-7 77-6 77-6 77-6 77-6 38-6 77-6 38-6 107-2 1	2 SIO3 UM/L 2.2 1.9 2.0 2.5 3.0 4.9 6.4 9.7 12.0 15.3 23.4 29.9 34.9	1014_6 P04 UN/L .34 .32 .34 .34 .37 .43 .56 .65 .92 1.08 1.31 1.63 1.85	.4 .4 .3 .3 .3 .4 .9 .9 .10.1 12.8 16.2 21.6 .25.2 27.0 33.5 38.9	17.2 C 1 NO2 UM/L .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	UET C 5-6 CHL-A UG/L .09 .09 .14 .14 .10 .21 .23 .24 .23 .18 .12	2000 AM 8/A PHAEO UG/L .00 .01 .07 .03 .04 .08 .09 .11 .11 .11 .04 .03	T TYPE SC PHERS D. HARP 10 27 10 12 20 30 30 30 30 30 30 30 30 10 11 10 12 12 12 12 12 12 12 12 12 12 12 12 12
LATITUDE LONGITUDF 15/77/85  CAST DEPTH TEMP DEG C POT LEMP DEG C POT 15/77/85  0 JSL 17.9 17.97	2245 GRT  SALINITY SIGMA THETA  33,478 24,112 33,447 24,122 33,447 24,122 33,447 24,122 33,448 24,260 33,375 24,724 35,361 24,540 33,355 24,724 35,367 24,777 33,364 24,967 33,424 24,967 33,424 24,967 33,424 24,967 33,425 25,987 33,577 25,616 33,577 25,616 33,577 25,616 33,577 25,616 33,577 25,617 33,577 26,677 34,218 26,677 34,218 26,677 34,218 26,677 34,218 26,677 34,218 26,677 34,218 26,677 34,217 27,179	370.6 370.6 370.6 377.7 377.7 377.7 377.7 377.7 371.3 327.4 310.3 310.3 310.3 210.1	NIND SPI 340 06 DYN HT .000 .008 .045 .075 .111 .121 .154 .177 .185 .216 .246 .252 .274 .301 .321 .321 .336 .331 .401 .401 .434 .504 .504 .507 .613 .687 .702 .841 .613 .687 .702 .841 .642 .643 .644 .644 .644 .644 .644 .644 .644	SEED WART 350 ONYGEN ML/L  5.54 5.54 5.57 6.00 6.14 6.12 6.11 5.84 5.84 5.87 6.00 6.14 6.17 6.18 6.19 6.10 6.10 6.10 6.10 6.10 6.10 6.10 6.10	04 0x v 102 - 3 103 - 0 103 - 0 105 - 0 106 - 0 107 - 2 106 - 0 107 - 2 106 - 0 107 - 2 107 - 2 108 - 0 108 - 0 10	2 SIO3 UM/L 2.2 1.9 2.0 2.5 3.0 4.9 6.4 9.7 12.0 15.3 23.4 29.9 34.9 53.4	1014_6 P04 UM/L .34 .32 .34 .34 .37 .43 .56 .66 .92 1.08 1.31 1.63 1.85 1.99 2.48 2.92 3.16	NO3 UM/L .4 .4 .4 .3 .3 .3 .4 .9 .9 .1 .1 .2 .8 .1 .6 .2 .2 .2 .2 .2 .2 .2 .2 .3 .3 .3 .3 .4 .1 .1 .2 .8 .3 .3 .3 .4 .1 .1 .2 .8 .3 .3 .3 .4 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	17.2 C 1 NO2 UM/L .00 .00 .00 .00 .00 .00 .04 .13 .13 .07 .04 .02 .01 .01 .01	UET C 5-6 CHL-A UG/L .09 .09 .14 .14 .10 .21 .23 .24 .23 .18 .12	2000 AM 8/A PHAEO UG/L .00 .01 .07 .03 .04 .08 .09 .11 .11 .11 .04 .03	T TYPE SC S S S S S S S S S S S S S S S S S S
LATITUDE LONGITUDF 31 44.9 N 170 5C.1 W 15/27/85  CAST DEPTH TEMP DE6 C 0F6 C 0F6 C C C 0F6 C C C 0F6 C C C C C C C C C C C C C C C C C C C	2245 GHT  SALINITY SIGMA THETA  33.47R 24.112 33.467 24.122 33.467 24.122 33.467 24.125 33.47R 34.361 34.260 31.378 24.777 33.361 24.540 33.355 24.724 33.352 24.790 33.424 24.947 33.354 25.087 33.455 25.087 33.456 25.087 33.457 25.087 33.557 25.191 33.5580 25.513 33.557 25.091 33.5580 25.513 33.557 25.091 33.5580 25.087 33.451 25.988 33.557 25.016 33.452 26.217 33.977 26.060 34.087 26.087 34.087 26.087 34.087 26.087 34.087 26.087 34.087 26.087 34.087 26.087 34.150 26.887 34.150 26.887 34.150 26.887 34.150 26.887 34.150 26.887 34.150 26.887 34.150 26.887 34.150 26.887 34.251 26.996 34.150 26.887	370.4 370.4 370.4 370.7 376.7 376.7 376.3 361.3 301.6 317.9 316.3 310.6 277.9 240.6 277.9 240.6 277.9 124.6 124.6 127.7 117.7	UND SPI 340 06 07 07 07 07 07 07 07 07 07 07 07 07 07	EED WART 350 ONVGEN MI/L 5.54 5.54 5.57 6.00 6.07 6.14 6.11 5.94 6.11 5.94 6.11 5.94 6.12 7.73 7.12 4.76 4.61 4.67 7.29 7.29 7.29 7.29 7.29 7.29 7.29 7.2	04 0x v 102 - 3 103 - 0 103 - 0 105 - 0 106 - 0 107 - 2 106 - 0 107 - 2 106 - 0 107 - 2 107 - 2 108 - 0 108 - 0 10	2 SIO3 UM/L 2.2 1.9 2.0 2.5 3.0 4.9 6.4 9.7 12.0 15.3 23.4 29.9 34.9	1014_6 P04 UN/L .34 .32 .34 .34 .37 .43 .56 .65 .92 1.08 1.31 1.63 1.85	.4 .4 .3 .3 .3 .4 .9 .9 .10.1 12.8 16.2 21.6 .25.2 27.0 33.5 38.9	17.2 C 1 NO2 UM/L .00 .00 .00 .00 .00 .00 .00 .00 .00 .0	UET C 5-6 CHL-A UG/L .09 .09 .14 .14 .10 .21 .23 .24 .23 .18 .12	2000 AM 8/A PHAEO UG/L .00 .01 .07 .03 .04 .08 .09 .11 .11 .11 .04 .03	T TYPE SC PHESS 0.8AR 0.27 10 12 20 30 33 43 50 37 76 37 76 11 10 14 15 11 12 12 12 12 12 12 12 12 12 12 12 12

PV	NEW HORI	204				FRO	NTS LEG I	ī						STATIO	ON 7	4
LATE 31 5	TUDE 4.8 %	LONGITUDE 120 45.3 k	DAY/MO/YR 16/07/85	MESSENG 0310 G		0170#	WIND SP 320 08	EED WA	VES 04	WEATHER 2	BAROME 1010.2	TER ! MO 1	DRY 15.6 C 1	#ET (	L CUD AH 8/8	T TYPE SC
CAST	DEPTH M	TEMP Deg C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	\$103 U4/L	PO4 UM/L	403 U#/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS <b>D.BP</b>
1	1	16.22	16.22 16.22	33.282	24.378 24.378	354.3 354.1	.000	5.87 5.87	104.6 104.6	1.8	.47	.1	.00	.18	.05	ņ T
1	10 ISL 11 20 ISL	16.16	16.16 16.16 16.16	33.296 33.297 33.313	24.401 24.403 24.414	352.1 351.9 351.2	.035 .039 .070	5.90 5.90 5.91	105.0 105.1 105.3	1.7	.4R	.0	.01	.21	.08	10 11 20
1	30 ISL 32 42	16.17 16.17 14.95	16.17 16.17 14.94	33.329 33.332 33.332	24.426 24.428 24.699	350.4 350.3 324.7	.106 .112 .146	5.93 5.93 6.13	105.6 105.6 106.6	1.7	.47	.0	.01	.36	.13	30 37 47
1	5° ISU 53 63	14.13 13.95 12.37	14.12 13.82 12.36	33.317 33.304 33.213	24.862 24.914 25.134	309.3 304.4 283.6	.172 .180 .209	6.19 6.21 6.12	105.8 105.5 100.8	2.5	.40	2.0	.01	.79	.07	50 53 63
1	73 75 ISI	12.01 12.03	12.00	33.235 33.262	25.219 25.236	275.7 274.2	.237	5.95 5.86	97.2 95.8	3.6	. 79	4.0	.37	. 35	.12	73 76
1	83 94 100 ISI	12.09 11.57 11.29	12.0P 11.56 11.28	33.413 33.446	25.298 25.440 25.516	268.5 255.2 248.1	.264 .293 .309	5.55 5.37 5.16	90.9 87.0 83.1	6.0 9.7	1.07	10.0	.07	.19	.07	64 101
1	104 118	11.14	11.13 10.42	33.467 33.616	25.560 25.801	244.0	.318	5.03 4.59	80.# 72.7	11.3 17.1	1,22 1,52	12.5 17.8	.04 .01	.14 .05	.1n .06	104 119
1	125 ISL 134 150 ISL	9.71	10.11 9.70 9.19	33.653 33.697 33.813	25.843 25.986 26.159	213.6 203.9 187.7	.367 .386 .417	4.27 3.79 3.28	67.1 59.1 50.7	23.0	1,71	20.5	01	•05	.05	126 135 151
1	159 185 200 150	9.00 2.73 8.46	8.98 8.71 8.44	33.875 33.926 33.965	26.241 26.323 26.396	180.0 172.6 165.9	.434 .479 .505	3.10 2.99 2.89	47.6 45.7 43.8	31.2 33.8	2.00	75.2 26.2	.01	.01 .01	.05	160 186 21.1
1	210 250 ISL	9.26	8.24 7.69	34.047	26.446 26.571	161,3 140,9	.521 .583	2.81	42.5 36.1	38.2	2.17	27.9	.01			211 252
1	300 ISE 313 400 ISE	7.10	7.17 7.07 0.34	34.083 34.086 34.141	26.673 26.690 26.831	140.8 139.3 126.8	.656 .675 .790	1.90 1.76 1.04	24.1 25.9 15.0	55.7	2,67	33.9	.01			302 315 403
1	415 500 181 520	6.26	6.22 5.84 5.77	34.152 34.230 34.249	26.855 26.964 26.989	124.6 115.1 113.0	.813 .911 .933	.91 .52	13.1 7.4	71.9	3,06	38.4	.01			421 504 523
	500 ISL	5.47 4.96	5.37 4.91	34.313 34.380	27.087 27.195	104.2	1.021	.45 .47 .37	6.4 5.9 5.2	83.9	3,31	40.5				605 706
1	775 200 TSL 1000 TSL		4.57 4.43 3.94	34.420 34.432 34.489	27.264 27.283 27.396	89.4 86.7 76.8	1.189 1.211 1.374	.34 .35 .54	4.7 4.8 7.3		3,49	43.5	.00			771 807 1009
1	1033	3.×4	3.74	34.492	27.407	75.9	1.400	.50		125.4	3.49	44.2	.00			1042
₽V																
	NEW HORS	ZON				FROI	NTS LEG T	t						STATIO	on 8	1
LATI	NEW HORT		DAY/MG/YR	MESSFNG	. <b>ER</b> R		NTS LEG I		IVES	WF A THF R	BAROME	:TER	DRY	STATIO		
32 0	1UDF 8.9 N	LONGITUDE 120 36.3 W		MESSENG 0614 G	H 3	OTTOP	WIND SP 310 11	EED WA	04	WEATHER 2	1013.5	MP 1	DRY 14.4 C 1	WET 0	LCUD AM 8/8	1 TYPE ST
32 0	TUDE 8.9 N DEPTH	LONGITUDE 120 36.3 W TEMP DEC C	16/07/85 POT TEMP DEG C	0614 G SALINITY	M F SIGMA THETA	OTTOP SVA	WIND SP 310 11 DYN HT	EED WA KT 330 OXYGEN ML/L	OAY PCT					WET C	LCUD AM	T TYPE ST PRESS D.9AR
32 0	1UDF 8.9 N	E ONGITUDE 120 36.3 W TEMP DEC C . 16.53	16/07/85 POT TEMP	0614 G	M 3 Sigma	OTTOP	WIND SP 310 11 DYN HT .000	EED W/ KT 330 OXYGEN ML/L 5.77 5.77	04 0XY PCT 103.5 103.5	S103	1013.5 P04	MP 1	14.4 C 1 ND2	WET 0 3,9 C	LCUD AM 8/8 Phaed	T TYPE ST PRESS
32 0 CAS1	TUDE 8.9 N DEPTH U ISL 11 10 ISL 11 20 ISL	TEMP DEG C 16.53 16.53 16.45 16.45	16/07/85 POT TEMP DEG C 16.53 16.53 16.49 14.4P 14.00	33.266 33.266 33.265 33.265 33.265	SIGMA THETA 24.294 24.294 24.304 24.305 24.402	362.2 362.1 361.4 361.3 352.4	WIND SP 310 11 DYN HT .000 .004 .036 .040 .972	EED W/KT 330  OXYGEN ML/L  5.77 5.77 5.83 5.84 5.96	0XY PCT 103.5 103.5 104.5 104.6 105.7	2 \$103 UM/L	1013.5 P04 UM/L	NO3 U#/L	14.4 C 1 ND2 UM/L	WET C 3.9 C CHL-A UG/L	ELCUD AM 8/8 Phaed UG/L	PRESS D.9AR 0 1 10 11 20
32 0 CAST	TUDE 8.9 N DEPTH M U ISL 10 ISL 11 20 ISL 30 ISL 32 A2	TEMP DEC C 16.53 16.53 16.45 16.15 1	POT TFMP DEG C 16.53 16.53 16.49 14.40 15.47 15.47 15.37	33.266 33.266 33.265 33.265 33.255 33.250 33.235 33.235 33.235	SIGMA THETA 24.294 24.304 24.305 24.402 24.509 24.529 24.985	362.2 362.1 361.4 361.3 352.4 342.4 340.6 297.3	WIND SP 310 11 DYN HT -000 -004 -036 -040 -072 -107 -113	EED W/KT 350 OXYGEN ML/L 5.77 5.77 5.83 5.94 6.07 6.09 6.11	04 0XY PCT 103.5 104.5 104.6 105.7 106.6 106.7	2 \$103 UM/L	1013.5 P04 UM/L	NP 1 NO3 U#/L	14.4 C 1 ND2 UM/L	WET C 3,9 C CHL-A UG/L	ELCUD AM 8/8 PHAEO UG/L	T TYPE ST PRESS D.9AR 0 10 11 20 30 32 42
32 0 CAST 1 1	TUDE 8-9 N DEPTH M U ISL 1 10 ISL 11 20 ISL 32 42 50 ISL 52	EONGITUDE 120 36.3 w TEMP DEG C 16.53 16.45 16.45 16.45 15.45 15.36 13.65 13.65	POT TFMP DEG C 16.53 16.53 16.53 16.49 14.49 14.40 15.47 15.47 13.05 17.28	0614 G SALINITY  33.266 73.265 73.265 73.250 73.253 73.3750 73.333 73.353	SIGMA THETA 24.294 24.304 24.305 24.402 24.509 24.529 24.529 24.529 25.053	362.2 362.1 362.1 361.4 361.3 352.4 342.4 340.6 297.3 291.9 290.8	WTND SP 310 11 DYN HT -000 -004 -036 -040 -972 -107 -113 -145 -169	EED WAR T 350  OXYGEN PL/L  5.77 5.77 5.83 5.96 6.07 6.09 6.11 6.03 6.01	0XY PCT 103.5 103.5 104.5 104.6 105.7 106.6 106.7 103.4 101.9	2 SI03 UM/L 1.5 1.5 2.8 3.1	1013.5 P04 UM/L .41 .41 .42 .46	NO3 UF/L -3 -3 -7	.00 .00 .00	WET C 3.9 C CHL-A U6/L .13 .14	.06 .09 .11	T TYPE ST PRESS D.9AR 0 10 11 20 30 37 42 50
32 0 CAST	TUDE 8.9 N DEPTH 10 ISL 1 10 ISL 10 I	E ONG I TUDE 170 36.3 W TEMP DEC C 16.53 16.47 16.47 15.47 15.30 13.65 13.27 13.26 12.46 12.46 12.46 12.46 12.46 12.46 12.46 12.46 13.47	16/07/85 POT TFMP DEG C 16.53 16.49 14.49 14.10 15.47 15.37 13.65 11.28 11.28 12.67 12.03 11.89	0614 G SALINITY  33.266 33.265 33.265 33.250 33.270 33.341 33.350 33.350 33.350	SIGMA THETA 24.294 24.294 24.304 24.305 24.402 24.509 24.529 24.985 25.057 75.158 25.292	362.2 362.1 361.4 361.4 361.3 352.4 342.6 297.3 291.9 290.8 281.4 262.0	WIND SP 310 11 DYN HT -000 -004 -036 -040 -077 -1107 -113 -145 -149 -174 -203 -230	S.77 5.77 5.73 5.94 6.07 6.03 6.01 6.03 5.94 5.61	04 0XY PCT 103.5 104.5 104.5 105.7 105.7 103.4 100.9 96.9 90.3	2 SI03 UM/L 1.5 1.5 2.8 3.1 3.9 5.2	1013.5 P04 UM/L .41 .41 .42 .46 .52 .64	NO3 UM/L -3 -3 -3 -7 1.4 3.3 6.3	14.4 C 1 ND2 UM/L .00 .00 .00 .03 .07 .19	WET C 3.9 C CHL-A UG/L .13 .14 .22 .29	### 8/8  PHAED UG/L  .06 .04 .09 .11 .13 .12	7 TYPE ST PRESS D.9AR 0 1 10 11 20 30 32 42 50 6.72 76
32 0 CAST	TUDF d.9 N DEPTH  U ISL 1 10 ISL 120 ISL 32 ISL 32 ISL 52 ISL 62 ISL 63 ISL 64 ISL 65	EDNGITUDE 120 36.3 k TEMP DEC C 16.53 16.45 16.45 16.45 17.65 13.65 13.25 13.25 12.46 12.66 11.96 11.76	16/07/85 POT TF MP DEG C 16.53 16.49 14.40 15.47 15.37 13.05 11.28 12.67 12.03 11.89 11.69 11.38	0614 G SALINITY  33.266 73.265 73.265 73.250 33.235 33.370 33.330 33.330 33.330	SIGMA THETA 24.294 24.304 24.305 24.402 24.509 24.529 24.985 25.053 25.053 25.053 25.290 25.32* 25.400 25.32*	362.2 362.1 361.4 361.3 362.4 342.6 297.3 291.9 201.8 281.4 262.0 265.4	WIND SP 310 11 DVN HT	EED 330 OXYGEN ML/L 5.77 5.77 5.73 5.94 5.96 6.01 6.03 6.01 5.73 5.84 5.93	04 PCT 103.5 104.5 104.5 106.6 106.7 106.6 106.7 101.4 101.4 100.9 91.8 90.3 86.9	2 SI03 UM/L 1.5 1.5 2.8 3.1 3.9	1013.5 P04 UM/L .41 .41 .42 .46	NO3 UM/L -3 -3 -3 -7 1.4 3.3	.00 .00 .00 .03	WET C 3.9 C CHL-A UG/L .13 .14 .22 .29	## 8/8  PHAEO UG/L  .06 .04 .09 .11 .13	7 TYPE ST PRESS D.9AR 0 1 10 110 120 39 39 62 50 62 50 67 76 87 92
32 0 CAST	TUDE d.9 N DEPTH  U ISU 1 10 ISU 11 20 ISU 32 42 50 ISU 52 62 72 150 62 72 150 150 150 150 150 150 150 150 150 150	TEMP DEG C 16.53 16.53 16.49 15.49 15.49 15.49 17.69 1	16/07/85 POI TFMP DEG C 16.53 16.49 14.40 14.00 15.47 13.05 17.28 13.25 12.67 12.03 11.39 11.69 11.38 10.81 10.71	0614 G SALINITY  33.266 73.266 73.265 73.250 33.273 33.370 33.351 33.352 33.350 33.401 33.501 33.523 33.520 33.600	SIGMA THETA 24.294 24.304 24.305 24.402 24.505 24.529 24.525 25.657 25.158 25.294 25.328 25.677 25.3678 25.678	SVA  362.2 362.1 361.4 361.3 352.4 340.6 297.3 291.9 291.8 251.4 262.0 275.1 245.7 232.6	WIND SP 310 11 DTN HT -000 -004 -036 -040 -072 -107 -113 -145 -149 -230 -239 -239 -281 -301 -305 -338	EED WERT 3300  OXTGEN MILL  S.77  S.78  S.24  S.24  S.24  S.24  S.25  S.24  S.26  S.25  S.26  S.	04 0XY PCT 103.5 104.5 105.7 106.7 106.7 107.2 106.9 96.9 96.9 96.9 97.2 74.2 73.2 68.7	2 S103 UH/L 1.5 1.5 1.5 2.8 3.1 3.9 5.2 7.7	1013.5 P04 UM/L .41 .41 .42 .46 .52 .64 .87	NO3 UM/L -3 -3 -3 -7 1.4 3.3 6-3 9.3	.00 .00 .00 .00 .03 .07 .07	WET C 3.9 C CHL-A U6/L .13 .14 .22 .29 .27 .27 .27	21 CUD AM 8/8  PHAED BG/L  .06 .04 .09 .11 .13 .12 .14	T TYPE ST PRESS D.9AR 7 1 10 11 20 37 62 76 62 76 82 90 101 102 117
32 0 CAST	TUDF d.9 N  DEPTH  U ISL 1 10 ISL 120 ISL 32 42 50 ISL 52 62 75 ISL 82 92 1101 ISL	E ONG I TUDE 170 36.3 W  TEMP DEC C  16.53 16.40 16.40 15.40 15.40 15.40 11.40	16/07/85 POI TFMP DEG C 16.53 16.49 14.49 14.100 15.47 15.37 13.25 12.67 12.03 11.89 11.19	0614 G SALINITY  33.266 73.266 73.265 73.265 73.275 73.275 73.275 73.370 73.381 73.382 73.382 73.382 73.382 73.382 73.382 73.382 73.382 73.382 73.382 73.382 73.382 73.382	SIGMA THETA 24.294 24.294 24.304 24.300 24.402 24.500 24.520 24.527 25.158 25.250 25.32* 25.400 25.32* 25.400 25.32* 25.400 25.32* 25.400 25.678 25.986 26.130	362.2 362.3 361.4 361.4 361.4 361.4 361.4 361.4 361.6 297.3 291.9 290.2 281.4 255.1 234.6 217.3 207.8	WIND SP 310 11 DVN HT	EED 330 OXTGEN ML/L 5.77 5.73 5.24 5.96 6.07 6.03 6.03 6.03 6.03 6.03 6.03 6.03 6.03	04 0XY PCT 103.5 104.6 105.6 105.6 106.7 106.7 106.9 91.8 96.9 79.8 77.8 63.6 55.7	2 S103 UM/L 1.5 1.5 2.8 3.1 3.9 5.2 7.7 1G.9 14.0 20.0 23.1	1013.5 P04 UM/L .41 .41 .42 .46 .52 .64 .87	NO3 UM/L -3 -3 -7 1.4 3.3 6.3 9.3 12.0 74.8 19.9 21.5	.00 .00 .00 .03 .07 .27	WET C 3.9 C CHL-A UG/L .13 .14 .22 .29 .27 .27 .27 .29 .27	200 AM 8/8  PMAEO UG/L  .06 .04 .09 .11 .13 .12 .14 .10 .11	T TYPE ST PRESS D.9AR 0 11 10 30 37 42 50 67 70 70 10 11 10 11 10 11 10 11 10 11 10 11 11
32 0 CAST	TUDE d.9 N DEPTH  U ISL 1 10 ISL 11 ISL 13 ISL 52 42 50 ISL 52 75 ISL 82 92 110 ISL 102 ISL 1151 ISL 1151 ISL 1151 ISL 1151 ISL	E ONG I TUDE 170 36.3 W  TEMP DEG C  16.53 16.40 16.40 16.40 15.40	16/07/85 POI TFMP DEG C 16.53 16.49 14.40 15.47 15.37 15.37 15.37 17.28 17.28 17.29 17.20	0614 G SALINITY  33.266 73.266 73.265 73.265 73.275 73.370 73.341 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350	SIGMA THETA 24.294 24.294 24.304 24.300 24.402 24.500 24.520 24.527 25.158 25.252 25.253 27.5678 25.8678 25.8684 25.986	362.2 362.4 361.4	WIND SP 310 11 DVN HT	EED WERT 350  OXYGEN MILL  S.77  S.73  S.24  6.07  6.03  6.01  5.24  6.05  4.06  3.35  4.06  4.06  3.24  3.24  3.24	04 0XY PCT 103.5 104.6 105.6 105.6 106.7 106.7 106.7 106.7 107.8 10	2 SIO3 UM/L 1.5 1.5 2.8 3.1 3.9 7.7 1G.5	1013.5 P04 UM/L .41 .41 .42 .46 .52 .64 .87 1.12	NR 1 N03 UF/L -3 -3 -7 1.4 3.3 6-3 9.3 12.0 74.8 19.9	.00 .00 .00 .00 .03 .07 .07 .04 .04	VET C 3.9 C CHL-A UG/L .13 .14 .22 .29 .27 .27 .29 .27 .27 .29 .27 .27	.06 .04 .09 .11 .13 .12 .14 .10	T TYPE ST PRESS D.9AR 11 10 30 31 32 52 62 72 76 72 76 92 110 110 110 110 110 110 110 110 110 11
32 0 CASI	TUPE 6.9 N  DEPTH  U ISL 10 ISL 11 120 ISL 12 ISL 1	LONGITUDE 120 36.3 VEMP DEC C 16.53 16.53 16.40 16.40 17.40 17.40 11.40 11.40 11.40 11.40 10.83 10.75 13.25	16/07/85 POT TF MP DEG C 16.53 16.49 14.40 15.47 15.37 13.05 11.29 11.26 11.39 11.69 11.39 11.69 11.39 11.69 11.39 10.81 10.81 10.81 10.87 9.87 9.71 9.55 9.24 8.87 8.45 7.84	0614 G SALINITY  33.266 73.266 73.265 73.250 73.253 73.375	SIGMA THETA 24.294 24.294 24.300 24.300 24.500 24.500 24.529 24.975 25.053 25.053 25.057 25.329 25.329 25.329 25.329 25.329 25.329 25.329 25.329 25.329 25.329 25.329 26.729 26.729 26.729 27.3	362.2 362.4 367.3 361.4 361.3 361.4 361.3 342.6 297.3 291.9 290.8 200.8 245.4 265.4 275.5 217.3	WIND SP 310 11 DYN HT -000 -004 -036 -040 -072 -107 -113 -145 -174 -203 -230 -230 -230 -230 -230 -338 -338 -369 -418 -443 -443 -455 -576	S.77 S.73 S.24 S.77 S.73 S.24 S.00 S.01 S.01 S.01 S.01 S.01 S.01 S.01	0 X Y Y T C T S T T T T T T T T T T T T T T T T	2 S103 UM/L 1.5 1.5 2.8 3.1 3.9 5.2 7.7 16.0 20.0 23.1 29.4	1013.5 P04 UM/L .41 .41 .42 .46 .52 .64 .87 1.12 1.30 1.61 1.76	NO3 UM/L -3 -3 -3 -7 1.4 3.3 6-3 12.0 14.8 19.9 21.5 24.7	.00 .00 .00 .03 .07 .07 .07 .07 .07 .07 .07 .07 .07 .07	HET C 3.9 C CHL-A U6 /L .13 .14 .22 .29 .27 .29 .27 .29 .27 .29 .17 .11	.06 .04 .09 .11 .13 .12 .14 .10 .11	1 TYPE ST PRESS D.9AR 0 11 10 11 20 30 42 50 50 50 72 42 50 101 102 117 117 1182 1157 1157 1157 1157 120 120 120 120 120 120 120 120 120 120
32 0 CAST	TUDE d.9 N DEPTH TO ISL 10 ISL 11 ISL 12 ISL 13 ISL 15 ISL 16 ISL 17 ISL 18 ISL	TEMP DEG C  16.53 16.53 16.53 16.40 16.53 16.40 15.40	16/07/85 POI TFMP DEG C 16.53 16.49 14.49 14.40 15.47 15.37 15.37 13.25 12.67 17.28 13.25 12.67 17.03 11.89 11.59 11.59 11.59 11.69 11.59 11.69 11.79 11.69 11.79 11.89	0614 G SALINITY  33.266 73.266 73.265 73.265 73.265 73.273 33.341 33.350 33.340 33.350 33.350 33.350 33.350 33.350 33.350 33.350 33.350 33.350 33.700 33.523 33.700 33.700 33.700 33.700 33.700 33.700 33.700 33.700 33.700 33.700 33.700 33.700 33.700 33.700 33.700 33.700 34.727 33.700	SIGMA THETA 24.294 24.294 24.304 24.305 24.402 24.509 24.529 24.529 25.329 25.329 25.329 25.329 25.329 25.329 25.360 25.400 25.400 25.400 26.7158 25.400 26.724 26.735	362.2 362.4 361.4 361.4 361.4 361.4 362.4	WIND SP 310 11 DVN HT	EED 340 OXTGEN ML/L S.77 S.78 S.24 S.07 6.07 6.07 6.07 6.01 5.24 1.55 4.4 4.06 3.24 4.06 3.24 3.09 2.99 2.99 2.99 2.99 2.99 2.99 2.99	04 0XY PCT 103.5 104.5 105.7 105.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 106.7 107.7 10	2 \$103 UM/L 1.5 1.5 1.5 2.8 3.1 3.9 5.2 7.7 16.5 14.0 20.0 23.1 29.4 32.8	1013.5 P04 UM/L .41 .42 .46 .52 .64 .82 .97 1.12 1.30 1.61 1.76	NO3 UM/L -3 -3 -3 -7 1.4 3.3 6.3 12.0 74.8 19.9 21.5 24.7 26.3	.00 .00 .03 .07 .07 .07 .07 .01 .02 .01 .02 .01 .02 .01 .02	HET C 3.9 C CHL-A U6 /L .13 .14 .22 .29 .27 .29 .27 .29 .27 .29 .17 .11	.06 .04 .09 .11 .13 .12 .14 .10 .11	T TYPE ST PPESSR 0 11 10 11 20 30 32 42 52 62 72 76 72 76 90 1102 1102 1102 1151 126 1351 1351 1351 1351 1351 1351 1351 135
32 0 CASI	TUPF d. 9 N  DEPTH  U ISL 10 151 11 152 120 151 30 151 50 151 150 151	TEMP DEG C 16.53 16.53 16.40 15.40 15.40 15.30 13.25 1	16/07/85 POI TFMP DEG C 16.53 16.49 14.49 14.40 15.47 15.57 13.25 12.67 17.28 13.25 12.67 17.03 11.89 11.59 11.59 11.59 12.67 12.73 11.89 11.59 12.67 12.70 13.25 12.67 12.67 12.70 13.25 12.67 12.70 13.25 12.67 12.70 13.25 12.67 12.70 13.25 12.67 12.70 13.55 12.67 12.70 13.55 12.67 13.55 13.65	0614 G SALINITY  33.266 73.266 73.265 73.265 73.265 73.265 73.265 73.265 73.265 73.265 73.265 73.265 73.265 73.265 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.401 73.606 73.606 73.606 73.606 73.606 73.606 73.606 73.701 74.177 74.177 74.177 74.177	#1 SIGMA THETA 24.294 24.304 24.304 24.305 24.402 24.529 24.925 25.053 25.053 25.5400	362 - 2 362 - 1 361 - 4 361 - 4 361 - 4 362 -	WIND SP 310 11 DTN HT	EED WE KT 330 OXTGEN MILL S. 77 S. 78 S. 24 G. 0.07 G. 11 G. 0.01 S. 24 4. 0.01 S. 25 4. 0.04 4. 0.06 3. 2. 24 4. 0.06 3. 2. 24 9. 2. 2. 9. 2. 2. 9. 2. 5. 9. 1. 9. 8. 2. 2. 9. 2. 5. 9. 1. 9. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 8. 2. 2. 9. 2. 5. 2. 2. 9. 2. 5. 2. 2. 2. 9. 2. 5. 2. 2. 2. 9. 2. 5. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	04 OXYY 103.55104.561104.561105.6110	2 SI03 UM/L 1.5 1.5 2.6 3.1 3.9 7.7 1G.5 14.0 20.0 23.1 29.4 32.8 35.4	1013.5 P04 UM/L .41 .41 .42 .46 .52 .64 .87 1.12 1.30 1.61 1.76 1.99 2.13 2.17 2.47 3.11	.3 .3 .7 .7 .4 .8 .3 .3 .7 .7 .4 .8 .1 .2 .0 .2 .1 .5 .2 .7 .7 .6 .3 .2 .7 .1 .4 .8 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .5 .8 .4 .5 .8 .4 .5 .5 .8 .4 .5 .8 .4 .5 .5 .8 .4 .5 .5 .8 .4 .5 .5 .5 .8 .4 .5 .5 .5 .8 .4 .5 .5 .8 .4 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	.00 .00 .03 .04 .04 .04 .01 .01 .01 .01 .01 .01 .01 .01	HET C 3.9 C CHL-A U6 /L .13 .14 .22 .29 .27 .29 .27 .29 .27 .29 .17 .11	.06 .04 .09 .11 .13 .12 .14 .10 .11	T TYPE STS D.9AR  7 11 10 11 10 39 32 42 50 67 77 76 92 101 102 1102 1102 1151 126 127 127 127 127 127 127 127 127 127 127
32 0 CAST  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TUPE 8.9 N  DEPTH  U I SL 10 I SL 11 I SL 12 I SL 13 I	LONGITUDE 120 36.3  TEMP DEC C 16.53 16.53 16.40 17.40	16/07/85 POI TFMP DEG C 16.53 16.49 14.40 15.47 15.37 13.65 11.28 13.25 12.67 12.03 11.89 11.89 11.99	0614 G SALINITY  33.266 33.265 73.265 73.255 33.273 33.381 33.381 33.382 33.380 33.381 33.382 33.380 33.380 33.381 33.380 33.381 33.687 33.701 33.523 33.687 33.701 33.687 33.701 33.687 33.701 33.687 33.701 33.687 33.701 33.687 33.701 33.687 33.701 33.687 33.701	SIGMA THETA 24.294 24.204 24.300 24.300 24.400 24.520 24.905 25.655 25.055 25.055 25.400 24.520 24.975 25.158 25.948 25.948 25.948 25.948 25.948 25.948 26.174 26.204 26.775 26.174 26.786	362.4 362.4 367.3 361.4 367.3 342.4 367.3 342.4 267.9 291.8 297.3 291.8 207.3	WIND SP 310 11 DYN HT -000 -004 -036 -040 -972 -107 -113 -145 -149 -273 -230 -230 -230 -230 -241 -301 -303 -349 -403 -418 -403 -517 -619 -619 -619 -619 -619 -619 -619 -619	EED OXTGEN ML/L S. 77 S. 77 S. 78 S. 26 G. 10 G. 11 G. 10 G. 11 G. 10 G. 11 G.	04 OXY T 103 - 5 - 5 - 1 104 - 5 - 6 - 7 1 105 - 6 - 7 105 - 6 - 7 105 - 6 - 7 1 105 - 7 1 105	2 SI03 UM/L 1.5 1.5 2.8 3.1 3.9 5.2 7.7 16.9 14.0 20.0 23.1 29.4 35.4 54.3 70.8 83.5	1013.5 P04 UM/L .41 .41 .42 .46 .52 .64 .77 1.12 1.30 1.61 1.76 1.90 2.17 2.47 3.11	.3 .3 .3 .7 .1.4 .3 .3 .3 .3 .7 .1.4 .3 .3 .3 .2 .1 .2 .0 .2 .1 .5 .2 .7 .1 .4 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3	.00 .00 .00 .03 .04 .07 .01 .01 .01 .00 .00	HET C 3.9 C CHL-A U6 /L .13 .14 .22 .29 .27 .29 .27 .29 .27 .29 .17 .11	.06 .04 .09 .11 .13 .12 .14 .10 .11	7 TYPE STEP PRESS D. 9AR P. 10 11 10 10
32 0 CAST  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TUPF d. 9 N  DEPTH  U ISL 11 10 151 11 120 151 12 152 12 152 12 152 15 151 15 1	LONGITUDE 120 36.3 \ TEMP DEC C 16.53 16.53 16.47 17.4	16/07/85 POI TFMP DEG C 16.53 16.49 16.53 16.49 17.40 17.47 15.77 15.87 17.28 17.28 17.28 17.29	0614 G SALINITY  33.266 73.266 73.265 73.265 73.265 73.265 73.265 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.350 73.700	SIGMA THETA 24.294 24.304 24.294 24.305 24.402 24.305 24.529 24.525 25.653 25.657 25.158 25.290 25.328 25.328 25.400 25.5400 25.6500 26.7600	362 - 2 362 - 1 361 - 4 361 - 4 361 - 4 362 -	WIND SP 310 11 DTN HT	EED WERT 350  OXTGEN MILL  S.77  S.78  S.24  6.07  6.11  6.03  6.01  5.61  5.61  5.61  5.61  5.61  5.61  5.75  4.60  4.60  7.90	04 OXY T 103 - 5 - 5 - 1 104 - 5 - 6 - 7 1 105 - 6 - 7 105 - 6 - 7 105 - 6 - 7 1 105 - 7 1 105	2 SI03 UM/L 1.5 1.5 2.6 3.1 3.9 7.7 1G.5 14.0 20.0 23.1 29.4 32.8 35.4	1013.5 P04 UM/L .41 .41 .42 .46 .52 .64 .87 1.12 1.30 1.61 1.76 1.99 2.13 2.17 2.47 3.11	.3 .3 .7 .7 .4 .8 .3 .3 .7 .7 .4 .8 .1 .2 .0 .2 .1 .5 .2 .7 .7 .6 .3 .2 .7 .1 .4 .8 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .2 .7 .1 .5 .5 .8 .4 .5 .8 .4 .5 .5 .8 .4 .5 .8 .4 .5 .5 .8 .4 .5 .5 .8 .4 .5 .5 .5 .8 .4 .5 .5 .5 .8 .4 .5 .5 .8 .4 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	.00 .00 .03 .04 .04 .04 .01 .01 .01 .01 .01 .01 .01 .01	HET C 3.9 C CHL-A U6 /L .13 .14 .22 .29 .27 .29 .27 .29 .27 .29 .17 .11	.06 .04 .09 .11 .13 .12 .14 .10 .11	T TYPE STS PRESS D.9AR 110 111 207 392 422 502 502 762 762 762 101 102 1102 1102 1102 1102 1102 1102

RV NEW HORIZON	FRONTS LEG II	STATION 9 4
----------------	---------------	-------------

TATI	TUDE 0.8 N	LONGITUDE 120 31.2 W	DAY/MG/YR 16/07/85	MESSENG 1115 G		HOTTOM	WIND :	SPEED WA		WEATHER 2	BAROMI 1013.		DRY 14.4 C		L GUD AM	T TYPE SC
CAST	DEPTH	TEMP Deg C	POT TEMP DEG E	SALINITY	S I GMA The ta	SVA	DYN H	MT/T MT/T	OXY PCT	2103	P04 U# /L	NO3 UM/L	NG2 UM/L	CHL-A UG/L	PHAE9 UG/L	PPESS D.BAR
1	0 151	16.60	16.60	33.263	24.276	363.8	.000		103.4							n
•	10 15		16.60 16.5#	33.263 33.261	24.276	363.8 363.7	.004		103.4	1.4	.43	.4	.00	.14	.03	1 10
1	11	16.58	16.58	33.261	24.279	363.7	.040		104.3	1.4	.42	.4	.00	.13	.03	11
	20 15		15.84	33.302	24.478	345.2	.07		105.5		•	• • •		•		20
	30 15		14.85	33.344	24.725	321.6	.10		105.9							30
1	32	14.65	14.64	13.352	24.779	316.8	.111		105.9	2.2	.49	.4	.00	. 19	.03	32
1	42	14.04	14.04	33.325	24.886	304.8	.147	6.10	104.1	2.2	.43	. 4	.00		.05	42
	50 150		13.44	33.305	24.993	296.9	.167	6.08	102.5							50
1	52	13.30	13.30	33.301	25.019	294.4	.177		102.2	2.7	.50	1.0	.05	.22	.07	52
1	62	12.40	12.40	33.310	25.202	277.1	.20		96.3		.72	4.4	.32		.13	62
1	72	12.07	12.06	33.314	25.269	271.0	.278		92.0		.75	5.2	.16	.76	.14	7?
	75 IS		11.98	33.317	25.287	269.4	.23		91.0							76
1	83	11.81	11.80	33.346	25.343	264.2	.25		88.4	6.5	.85	7.0	.09		.13	83
1	97	11.57	11.56	33.468	25.482	251.2	.283		82.4		1.07	10.8	.04	.13	-16	63
	100 IS		11.35	33.502	25.547	245.2	.30		78.9						••	101
1	103	11.25	11.26	33.510	25.569	243.1	.301		77.7		1.18	17.7	.03		.10	193 119
1	113	10.53	10.52	33.645	25.806	220.8	.344		66.7		1.36	16.3	.03	.08	.09	
1	125 ISI 133	L 10.2% 9.99	10.26 9.97	33.681 33.720	25.878 25.958	214.1	.359		64.0		1.56	19.2		-04	.04	126
•	150 15		9.48	33.720	26.110	192.4	-409		61.0 53.2		1.30	14.2	.02	.04	.04	151
1	159	9.27	9.25	33.855	26.181	185.7	-42		49.5		1.91	24.2	.01	.01	.05	140
i	185	8.70	8.77	33.936	26.322	172.7	.47		45.9		2.06	26.4	.01		.02	186
-	200 15		8.55	33.976	26.387	166.8	499		44.3		2.00	20.4		.00		201
1	279	8.45	R.43	33.997	26.427	163.6	.51		43.3		2.17	27.8	.01			210
	250 15		7.80	34.056	26.562	150.8	.57		15.5		••••		•••			252
	300 15		7.13	34.100	26.692	139.0	-650		25.4							302
1	311	7.03	7.00	34.106	26.715	136.9	-666		23.1		2.76	35.2	.01			313
	400 IS	6.50	6.46	34.184	26.848	125.2	.78		11.4							403
1	419	6.45	6.4?				.805	.67	9.7	72.1	3.14	38.9	.01			421
	500 15		6.00	34.271	76.977	114.1	.902	.42	6.0							504
1	521	5.94	5.90	34.288	27.003	111.8	.926		5.6	82.3	3.32	41.0	.01			525
	600 150		5.53	34.330	27.08?	105.0	1.011		5.1							605
	700 IS		5.09	34.370	27.166	97.6	1.11		4.5							706
1	789	4.47	4.76	34.394	27.22?	92.7	1.189		4.1	104.9	3.52	43.8	.00			796
	#00 ISI		4.68	34.401	27.237	91.4	1.20		4.1							*n7
	1200 15		3.99	34.470	27.365	80.0	1.379		6.6							1009
'	1043	3.94	3.86	34.483	27.389	77.8	1.413	.55	7.5	123.0	3.51	44.6	.00			1052

RV NEW MORIZON FRONTS LEG II STATION 1C 1

	17UDE 40.1 N	LONGITUDE 100 20.0 W	PAY/MO/YR 16/07/85	MESSENG 1442 G		BOTTOM	WIND S	SPEED WA		WEATHER 2	BAROM 1014.		DRY 14.4 C 1		L GUD AM	T TYPE SC
CAS	T DEPTH	TEMP DEG C	POT TEMP DEG C	SALTNITY	SIGMA THE TA		DYN H	OXYGEN ML/L	OXY PCT	SIO3 Um/L	PO4 UM/L	NO3 UM/L	NO? UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 150	16.25	16.25	33.288	24.375	354.3	.000	5.83	104.0							0
1	1	16.25	16.25	33.288	24.375				104.0		.38	. 3	.01	.20	.12	1
	10 15	16.25	16.25	33.286	24.374	354.7	.039		104-1							10
1	11	16.25	16.25	33.286	24.373	354.8	.039	5.84	104.2	1.6	.39	. 3	.01	.20	.10	11
	20 150	15.35	15.35	33.229	24.532	330.9	.070	6.09	106.7							50
	30 150	14.08	14.08	33.197	24.779	316.7	.103	6.30	107.5							30
1	3.5	13.67	13.66	33,195	24.863	308.8	.112	6.35	107.4	2.0	.43	. 3	.01	.19	.08	33
1	43	12.77	12.77	33.264	25.095	286.9	,142	6.14	102.0	3.0	.52	1.6	.11	.26	.09	43
	50 I S		12.54	33.296	25.164		.16		98.5							50
f	54	12.48	12.48	33.310	25.187	278.4	.173	5 5.84	96.5	4.1	.62	3.7	.25	. 30	.15	54
1	64	12.18	12.17	33.367	25.289	268.9	.200	5.47	89.8	5.7	.70	5.6	.16	.32	.13	64
7	75	11.72	11.71	33.404	25.404				88.0	7.3	.92	9.3	.05	.22	.11	75
1	85	11.26	11.25	33.409	25.492	249.9	.254	5.28	85.0	9.4	1.07	11.6	.03	.13	.12	85
1	96	10.63	10.62	33.484	25.662	234.0	.280	4.86	77.2	14.0	1.28	15.4	.02	.05	.07	96
	100 151	L 10.60	10.5R	33.537	25.710	229.5	.291	4.61	73.2							101
1	104	16.55	10.54	<b>₹₹.591</b>	25.769	224.9	.301	4.31	68.4	16.0	1.37	16.5	.02	.05	.06	106
1	121	19.15	10.13	33.680	25.899	212.0			61.7	19.9	1.52	19.2	.01	.03	.05	122
	125 150		10.05	33.696	25.925	209.6	.346	3.87	60.9							126
•	137	9.79	9.77	33.742	26.008	201.8	.371	3.75	58.6	22.4	1.62	20.8	.01	.02	.03	13R
	157 15		9.41	33.785	26.101	193.2			55.2							151
1	163	9.10	9.na				.42	1 3,37	51.9	28.5	1.85	74.1	_01	.01	.07	164
1	189	8.82	8.8	33.911	26.288				48.9		1.95	25.4	.01	.00	.03	190
	206 IS		P.67	33.949	26.347				46.5							201
1	215	8.47	8.39	33.996	26.427				42.9		2.10	27.9	.01			216
	250 ES		7.86	34.050	26.549		.561		36.0							252
	300 180		7.22	34.088	26.671	141.1	.640		27.4							305
1	318	7.05	7.02	34.089	26.698				24.7		2.66	34.7	.01			320
	400 IS		6.25	34.162	26.858		.77		13.1							403
•	425	6.11	6.07	34.182	26.897				10.4		3.10	19.7	.01			428
	500 IS		5.72	34.234	26.983				6.7							5.04
1	527	5.66	5.62	34.251	27.009				4.1		3.28	41.8	.01			571
	400 15		5.30	34.304	27.089				5.7							405
	700 15		4.88	34.369	27.188				5.1							706
1	7 <b>9</b> 9	4.61	4.55	34.419	27.266					109.5	3.46	44.6	.01			704
	200 IS		4.51	34.425	27.275				4.6							<b>•</b> €7
	1000 15	L 3.99	3.92	34.463	27.583				7.1							1009

RV NEW HORIZON F	RONTS LEG II	STATION	10	11
------------------	--------------	---------	----	----

RV I	NEW HORE	Z ON				FRO	1TS LEG I	1						STATIO	M 11	) 11
LATI: 32 40		LONGITUDE 120 20.5 W	DAY/MO/YR 17/07/85	MESSEN6 1006 6		0110	WIND SP	EED WA 310		LEATHER	BAROME 1013.9		BPY 15.0 C 1		LOUD AP	T TYPE
							***			_						
CAST	DEPTH M	TEMP Deg c	FOT TEMP DEG C	SALINITY	SIGMA THETA	SAN	DYN HI	MF\F OXACEM	OXY PCT	\$103 U#/L	P04 U#1/L	NO3 UM/L	NO2	CHL-A	PHAEO UG/L	PRESS D.RAP
	0 151	16.51	16.53	33.286	24.310	360.6	.000	5.80	104.0							9
1	2 10 ISL	16.53	16.53	33.286 33.284	24.310	36F.6 360.7	.036	5.80	104.0	1.7	.44	.?	.01	.18	.05	2 10
1	12	16.52	16.52	33.284	24.311	360.7	.043	5.85 5.87	105.2	1.6	.45	. 2	.01	.18	.05	12
	50 ISF	. 15.70	15.70	33.263	24.481	344.8	.072	6.03	106.4							20
1	30 JSL 33	14.37	14.37 13.92	33.239	24.750	319.4 310.9	.105	6.27 6.27	106.8	2.1	.46	.7	.00	.28	0.4	3n 33
į	43	12.55	12.84	33,215	25.042	291.9	.144	6.30	104.8	2.9	.58	1.0	.06	.28	<b>3</b> 04	43
_	50 I SL		12.72	33.255 33.263	25.097	286.9	.165	6.20	102.9							50
1	54 6<	12.66	12.65 12.18	33,303	25.116 25.23*	285.1 273.8	.175	6.13 5.94	101.6 97.5	3.2 4.6	.65 .79	2.3	.17	.32	.09 .10	54 65
ì	75	11.84	11.83	33.412	25.388	259.7	.232	5.37	87.6	7.7	.97	8.9	.13	. 24	12	75
!	85	1ú.99	10.98	33.431	25.558	241.7	.258	5.09	81.5	11.6	1.22	12.9	.03	.09	.03	8.5
1	96 100 ISL	10.43	10.42 10.20	33.521	25,726 25,800	227.9 227.9	.283 .293	4.68	74.1 70.2	15.9	1.43	16.4	.02	.04	.06	96 101
1	106	9.97	9.96	33,567 33,624	25.885	212.9	.305	4.13	65.5	21.0	1.64	20.4	.01	.02	.06	106
1	121	9.73	9.72	33,751	26.024	200.0	.338	3.71	57.9	23.3	1.66	21.0	.01	.02	.06	122
1	125 156	9.60	9.58 9.13	33.78D 33.862	26.069	195.8 127.8	.345	3.61 3.32	56.1 51.2	28.7	1.90	24.2	.01	.01	.02	126 137
•	150 151		1.82	33.927	26.306	171.6	.391	3.11	47.6	20.1	1.70	24.2	.01	.01	.07	151
1	163	8.65	4.63	33.967	26.367	168.0	-413	2.97	45.3	34.6	2.11	26.8	.01	.00	.02	164
1	188 200 ISL	9.35	8.33 P.17	34.019	26.454 26.476	160.2 15%.0	-454 -473	2.72 2.72	41.2	38.6	2.22	28.2	.00	.00	.03	189 201
1	214	8.01	7.99	34,014	26.501	156.0	.495	2.73	41.0	40.8	2.29	29.1	.01			215
	250 150		7.57	34.014 34.039	26.582	148.8	.550	2.40	35.7							252
1	300 15t	. 7.10 6.96	7.07 6.93	34.091 34.111	26.693 26.728	138.8 135.6	.622	1.77	26.1 22.5	59.0	2.77	35.3	.00			302 318
•	400 150		6.25	34.178	26.872	122.8	.753	.83	11.9	37.0	2.//	33.3	.00			403
•	422	6.17	6.09	34 103	26.904	150.0	.780	.69	9.9	75.5	3.17	39.8	.00			425
,	500 15	5.54	5.62 5.50	34.235 34.246 34.299	26.996 27.019	111.9	.270 .898	.44	6.3	87.7	7 74	41.9	.00			504 527
•	600 ISL		5.17	34.299	27.100	107.8	.977	.37	5.7 5.2	87.7	3.36	41.4	.00			605
	70% TSL	4.57	4.91	34.365	27,193	94.6	1.076	.33	4.6							796
1	784	4.44	4.57	3417 34-424	27.761	88.9	1,153	.29		108.8	3.54	44.1	.00			790 207
	500 ISU 1000 ISU		4.52 3.92	34.484	27.273 27.383	87.8 78.1	1.167	.30 .48	6.6							1009
1	1053	3.46	3.78	34.490	27.403	76.5	1.374	.57		124.7	3.53	45.9	.00			1062

FRONTS LEG II

	TUDE   1.6 4	LONGITUDE 120 32.0 W	0AY/MO/YR 17/07/85	MESSENG 1413 G		BOTTOM		SPEED D5 KT 3	WAVES 10 03	WEATHER 2	BAROM 1015.		DRY 15.6 C		CLOUD 48 8/8	TYPE SC
CASI	HIYBO 1	TEMP DEG C	POT TEMP DEG C	SALTNITY	SIGMA THE TA		DYN HT	T OXYG ML/		2103	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L		PRESS D.BAR
	0-150		16.96	33.262	24.192		.000									D
1	1	16.76	16.96	33,262	24.192		.004				.37	. 3	.00	.13	.01	1
	10 15		16.95	33.260	24.191	372.1	.037									10
1	T 1	16.96	14.95	33.260	24.191	372.2	.941				.38	.3	.00	.12	.02	11
	20 131		16.12	33.318	24.427		.073									50
	37 151		14_91	33.365	24.732		.107									30
1	32	14.65	14.65	33.373	74.794		.113				.37	. 3	.00			37
1	42	13.70	13.70	33.296	24.934		.144				.39	. 3	.00	.20	.13	4?
	50 IS		13.37	33.348	25.040		.168									50
1	52	13.33	13.32	33.361	25.059		.173				.54	2.1				\$2
1	63	12.78	12.77	37.342	25.155		.205				.63	3.5				63
1	75	12.01	12.00	33.305	25.274		.232				.71	5.2	.15	.27	.12	73
	75 15		11.71	33.312	25.297		.238									76
1	8.3	11.74	11.73	33.357	25.365		.258				.83	7.4				*3
1	> 3	11.65	11.64	33.42#	25.436		. 284				.95	5.2	.06	.18	.11	93
	100 [5]		11.65	33.449	25.450		.303									101
1	104	11.67	11.66	33.467	25.460		.312				.09	9.7				104
1	119	11.07	11.05	33,578	25.660		.349				1.23	14.2	.03	.10	.12	119
	125 IS		10.68	33.635	25.770		.364	4.3								126
1	133	19.22	10.21	33.703	25.905		.382				1.46	17.8	.02	.05	-0≠	134
	150 15		9.58	33.794	26.080											151
1	159	9.37	9.35	33.828	26.1 5		.433				1.81	23.2			.03	160
1	185	8.00	8.97	33.905	26.266		.481				2.00	25.5	.01	.00	.02	186
	500 12		P.69	33.948	26.344		.507									201
1	210	8.52	e.50	13.974	26.393		.524				2.09	59.6	-01			211
	250 TS		7.88	34.038	26.537		.588									252
	300 IS		7.27	34.090	26.665											302
1	312	7.18	7.15	34.097	26.687						2.67	34.4	.00			314
	400 15		6.56	34.205	26.852		.799									403
1	420	6.51	6.47	34.227	26.882		.920				3.14	38.6	.01			423
	500 15		6.10	34.277	24.969											584
1	522	6.05	6.00	34.287	26.989						3.34	40.6	.00			526
	500 IS		5.62	34.323	27.065		1.025									ANS
	700 IS		5.14	34.365	27.155		1.128									706
1	785	4.82	4.76	34.395	27,723		1.209				3.53	44.0	.00			791
	800 IS		4.70	34.401	27.235		1.223									#07
_	1000 IS		4.00	34.471	27.366		1.395									1050
1	1053	3.93	1.85	34.488	27.395	77.4	1.437	7 .5	5 7.	5	1.56	44.8	.00			1"62

7

LATI	TUBE 9.8 N	LONGITUDE 120 37.3 W	DAY/MO/YR 17/07/85	MESSENG 1738 G		вотта⊭	WIND SF	TEED WA		WEATHER 2	BAROM 1015.		DRY 6.7 C 1		LCUD AM	T TYPE SC
CAST	D E P T H	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THE TA	SVA	DYN HT	OXYGEN #L/L	OXY PCT	SIO3 UM/L	PO4 Um/L	NO3 Um/L	NW\r	CHL-A US/L	PHAEO UG/L	FRESS D.AAR
	3 I St		16.70	33.281	24.266	364.7	.000	5.78	104.0							r
1	1	16.75	16.70	33.281	24.266	364.7	.004	5.78	104.0	1.6	.43	. 3	.00	.15	.04	. 1
	10 15		16.56	33.288	24.304	361.4	.036	5.83	104.7			_				10
1	11	16.54	16.54	33.290	24.311	360.7	.040	5.84	104.8		.42	. 3	.00	.19	.07	11
	20 151		16.2R	33.382	24.441	348.7	.072	5.90	105.4							50
	30 I St		15.62	33.425	24.623	331.6	.106	6.02	106.1			-				30
1	32	15.45	15.45	33.426	24.662	328.0	-112	6.05	106.3		.42	.3	.01	.21	.06	32
1	45	14.06	14.06	33.260	24.832	312.0	-144	6.28	107.2		.43	. 3	.00	-17	.08	47
	50 150		13.33	33.244	24.969	299.5	.169	6.26	105.3					**	• •	50
1	52 63	13.20	13.19	33.241	24.993	296.8	.174	6.26	104.9		.51	6	-03	.30	.10	5? 6*
,		12.33	12.33	33.237	25.159	281.3	.206	6.00	98.7		.64	2.8	. 23	. 26	.12	73
,	73 75 ISI	12.25	12.24 12.21	33.364	25.274	270.6	.233	5.57	91.6 89.8		.81	6.1	.25	.23	.15	76
1	83	12.13	12.12	33.391 33.483	25.300 25.389	268.2 259.9	.240	5,15	84.5		.92	8.5	.13	,18	.16	93
í	93	11.43	11.42	33,481	25.517	247.8		4.96	80.2		1.11	11.5	.06	.13	.09	93
•	100 150		11.14	33.498	25.581	241.9	.285	4.77	76.7		1.11	11.2	.00		.07	101
1	104	11.05	11-04	33.511	25.610	239.2	.312	4.69	75.2		1.24	13.5	.04	.10	.10	104
i	116	10.42	10.47	33.618	25.793	555.0	.346	4.63	73.4		1.74	22.1	.01	.05	.08	119
•	125 15		10.10	33.664	25.792	212.7	.340	4.28	67.4		1,74	22.1	.01	.03	• 01	126
1	133	9.66	9.64	33.723	26.015	201.1	.378	3.77	58.7		1.77	22.3	.01	.01	.05	134
•	156 IS		9.16	33.843	26.187	185.0	-410	3.16	44.8				•••	•	,	151
1	159	9.01	9.69	33.897	24.256		.426	2.98	45.8		2.04	26.3	-02	-00	.05	160
1	185	8.45	8.43	33.964	26.396	165.6	.471	2.99	45.4		2.15	27.3	.02	.00	.03	186
	200 151		8.25	33,994	26.448	160.9	.495	2.88	43.6					•••	•••	211
1	210	r.17	8.15	34.011	26.475	158.4	.511	2.79	42.1		2.27	28.5	.01			211
	250 ISI		7.68	34.050	26.576	147.4	.573	2.39	35.7				•••			252
	300 1 St		7.12	34.080	26.678	140.3	.645	1.88	27.7							302
1	312	7.02	6.99	34.084	26.698	138.4	-662	1.75	25.7		2.74	34.6	.01			314
	400 150		6.25	34.154	26.853	124.6	.778	.96	13.8							403
1	417	6.10	6.12	34.167	26.879	122.3	.799	.83	12.0	71.8	3.15	39.3	.01			420
	500 150	5.67	5.63	34.219	26.982	113.1	.896	.53	7.5							504
1	518	5.58	5.53	34.230	27.002	111.3	.917	.49	7.0	83.1	3.36	41.5	.01			522
	600 IS	. 5.22	5.17	34.287	27.091	103.6	1,005	.43	6.0							625
	700 IS	4.75	4.80	34.353	27.186	95.3	1.104	.35	4.9							704
1	774	4.63	4.57	34.397	27.246	90.1	1.173	.29	4.0	104.8	3.56	45.0	.01			780
	800 ISI		4.49	34.409	27.265	88.4	1.196	.29	4.1							807
	1000 150		3.93	34.477	27.377	78.7	1.363	.48	6.6							1009
1	1042	3.01	3.83	34.485	27.304	77.4	1.396	.56	7.7	120.1	3.59	44.8	.00			1051

RV MEW HORIZON FRONTS LEG II STATION 13 ?

	1110E 54.6 N	LONGITUDE 120 44.6 #	DAY/MO/YR 17/07/85	SSSE C Messene		BOTTOM	WIND SPE 340 07	EED 44 KT 310		R SHTABW S	BAROM 1013.		DRY 19.4 C 1		LCUD AF	SC SC
CAS	DEPTH	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA		DYN HT	OXYGEN ML/L	OXY PCT	SIO3 Um/L	PO4 UM/L	NO3 U#/L	M05	CHL-A	PHAEO UG/L	PRESS D.BAR
	0 15		17.14	33.271	24.155		.000	5.77	104.7							0
1	2	17.14	17.14	33.271	24.155		.007	5.77	104.7	1.5	.31	. 2	.00	.11	.02	?
	10 15		16.75	33.265	24.242		.037	5.80	104.5							10
1	. ?	16.62	16.67	33.262	24.271	364.6	.044	5.81	104.4	1.6	.31	.7	.00	.12	.02	12
	,0 12		15.72	33.219	74.442		.073	6.05	196.7							50
	30 I S		14.60	33.215	24.683		.107	6.30	108.6							30
1	33	14.22	14.28	33.208	24.745		-116	6.36	109.0	1.6	.34	. 2	.00	.16	.06	33
1	44	13.72	13.72	33,315	24.944		.150	6.23	105.6	2.5	.38	.5	.02	.24	.13	44
	50 15	L 13.58	13.57	33,395	25.036	797.8	.168	5.94	100.4							50
1	53	13.46	13.46	33.411	25.072		.177	5.83	98.4	3.5	.45	1.3	.07	.28	.10	5*
1	63	12.20	12.19	33.243	25.189	278.3	.205	6.01	98.6	3.6	.64	3.6	. 34	.37	.09	**
7	73	11.87	11.86	33.258	25.263		.232	5.85	95.3	4.2	.75	5.6	.35	. 33	.10	73
	75 15		11.80	33.262	25.277		.238	5.81	94.6							76
1	<b>83</b>	11.66	11.65	33.285	25.323		.259	5.68	65.5	5.6	.85	7.4	_14	.25	.07	F 5
1	93	11.47	11.45	33.345	25.406		. 285	5.48	*8.6	7.6	.00	9.5	.10	.21	.06	93
	100 15		11.37	33.410	25.472		.304	5.32	85.9							101
1	104	11.33	11.32	33.444	25.507		.313	5.23	84.3	9.8	1.11	11.9	.07	-16	.11	104
1	113	10.86	10.85	33,595	25.709		.349	4.59	73.3	14.2	1.35	16.0	.05	.OR	.06	119
	125 15		10.57	33.636	25.798		.363	4.29	68.1							176
1	133	10.11	10.10	33.680	25.906		.382	3.93	61.8	19.9	1.50	19.6	.03	.04	.04	134
	150 IS		9.57	33.775	26.068		.415	3.40	52.9							151
1	158	9.40	9.39	33.817	26.130		.431	3.22	49.9	27.0	1.87	23.9	.01	.81	.12	159
1	183	8.91	P.89	33.902	26.276		.477	3.04	46.6	30.8	2.01	25.7	_01	.01	.03	184
	200 15		9.67	33.946	26.753		.506	2.97	45.3							201
1	208	8.53	A.50	33.963	26.384		.520	2.94	44.7	34.0	2.09	27.0	.01			270
	250 IS		7.86	34.021	26.525		.587	2.57	38.5							252
	300 IS		7.19	34.061	26.653		.662	2.02	29.8							302
1	307	7.13	7.10	34.065	24.668		.672	1.93	28.4	52.3	2.59	33.4	.01			309
	400 19		6.31	34.147	26.839		.796	1.01	14.6							403
1	411	6.27	6.24	34.156	26.856		.810	.91	13.1	69.4	3.07	38.7	.01			414
	500 IS		5.71	34.746	26.993		.915	.46	6.5							504
1	511	5.70	5.66	34.256	27.008		.927	.42	6.0		3.32	41.3	.01			514
	600 15	L 5.29	5.24	34.322	27.111	101.8	1.072	.37	5,2							605
	700 IS		4.83	34.381	27.204	93.7	1.120	.31	4.5							756
1	764	4.67	4.61	34.409	27.251		1.179	.27	3.8	104.9	3.52	44.2	.00			770
	800 15		4.48	34.424	27.278		1.210	.28	3.9							807
	1000 15		₹.84	34.481	27.390		1.375	.50	6.8							1009
1	1029	3.34	3.74	84.485	27.401	76.*	1.397	.55	7.5	121.7	3.52	44.5	.00			1037

	TUDE	LONGITUDE	DAY/MO/YR	MESSENG		ROTTOR	WIND SP			WEATHER			DRY		L JUD AM	
31 4	4.7 N	120 50.6 ₩	18/07/85	0124 6	M 1			320	0.5	2	1013.	> =B 1	18.9 6 1	16.1 (	0 / 5	sc
CAST	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	5103	P04	NO 3	102	CHL-A	CBAHA	PRESS
	۳	DEG C	DEG C	-	THETA			ML/L	PC T	UMIL	UM/L	UM/L	UM/L	US/L	76/L	D.BAR
	0.15	L 17.46	17.46	33,261	24.071	384.4	.000	5.72	104.5							2
1	1	17.46	17.46	33.261	24.071		.004	5.72	104.5		.43	.3	.00	.13	.02	1
	10 15		16.99	33.239	24.166		.038	5.74	103.8		•	• • •	•	•		10
1	11	16.95	16.95	33,237	24.175		042	5.74	103.7		.42	.3	.00	.11	.02	11
	20 IS	L 16.66	16.65	33.243	24.248	367.1	.075	5.80	104.3							50
	21 CE		1 33	33.249	24.328		.111	5.87	104.8							30
1	32	16.27	16.27	33.251	24.343		.118	5.88	104.9	1.6	.42	.3	.00	.18	.03	32
1	4 3	14.49	14.48	33.271	24.751		.155	6.30	108.4		.43	. 3	.00	.12	.26	43
	50 IS		13.95	33.267	24.859		.178	6.30	107.3							40
1	5.3	13.83	13.83	33.240	24.879		.186	6.30	107.0		.43	.3	.00	.17	-04	5 3
1	64	15.35	13.34	33.222	24.949		.220	6.32	106.7		.47	.4	.01	.19	-03	64
1	74	13.20	13.19	33.380	25.101		.249	5.84	98.0		.54	2.2	.11	. 24	.13	74
	75 15		13.19	33.373	25.111		.253	5.78	96.9							76
1	34	13.21	13.20	33.475	25.173		.277	5.42	91.0		.62	1.5	.12	.27	.15	۶4
1	95	12.50	12.49	33.492	25.324		.307	5.14	85.0		.20	J.7	.13	.19	- 14	95
•	100 TS	L 12.27	12.24	33.515	25.387		.322	4.99	62.2					••	.16	101 105
1	119	11.33	12.08 11.31	33.535 33.572	25.437		.333	4.88	0.0		.91	8.8	.12	.19 .11	.12	120
,	125 15		11.03	33.573	25.659		.370 .383	4.63	74.7 73.1	****	1.11	12.5	."0	- 11	. 1 2	126
1	136	10.4	10.46	33.574	25.760		.410	4.37	69.2	15.4	1.34	16.4	.nz	.16	-08	137
•	151. 15		9.80	33-669	25.946			3,91	61.0		1.34	10.4	.112	. 16	•00	151
1	161	9.36	9.35	33.767	26.098		.462	3.50	54.2		1.73	23.0	.01	.01	.04	162
,	156	9.90	8.87	33.899	76.276		.508	3.01	46.1		1.96	26.2	.00	.00	.54	15.7
	200 IS		8.64	33,949	26.351		.532	2.89	44.1		.,,		• • • •	. 50		201
1	212	A 4.5	8.46	33.981	26.405		.552	2.87	42.3		2.08	27.8	.00			213
	250 IS		7.91	34.039	26.533		.613	2.49	37.3				• • •			252
	21 005	1 د 7	7.28	34.073	26.650	143.0	.687	2.02	20.0							302
1	314	7.15	7.12	34.074	26.673	141.0	.707	1.88	27.7		2.52	33.9	.01			316
	400 13	L 6.34	6.31	34.133	26.829	127.0	.822	1.07	15.5							403
1	421	6.19	6.15	34.145	26.861	124.1	.849	.89	12.8	69.9	2.97	39.3	.c.			424
	506 15		5.77	34.23#	24.980		.942	.46	6.6							504
1	522	5.73	5.68	34.262	27.009		-966	.38	5.4		3.24	41.5	.01			525
	71.064		5.37	34.322	27.101		1.050	.36	5.0							605
	700 13		4.49	34.381	27.194		1.149	.33	4.6							706
1	731	4.67	4.56	34.413	27.267		1.223	- 30		105.5	3.3∀	44.3	.00			797
	1.00 I.		4.49	34.421	27.274		1.240	.31	4.3							8º7
	1,00 17		3.84	34.484	27.392		1.404	.51	7.0							1009
1	1051	3.74	3.71	34.492	27.412	75.4	1.444	.60	8.2	122.4	3.39	44.9	.00			1060

NY NEW HOMEZUN FRONTS LEG TE STATION 15 2

6 A T I	THDE 4.9 N	LONCITUDE 129 55.8 W	084/47/4P 18/07/85	MESSENG 0409 6		90110#	WIND SP	FED W		WEATHER 2	BAROM:		DRY 16.7 C 1		PA GUD AS B\P	TYPE SC
( a < 1	DEPTH	TEMP DEG C	FOT TEMP DEG C	SALINITY	SIGMA THETA		DYN HT	OXYGEN ML/L	OXY PC T	5103 UM/L	P04 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PMAEO UG/L	PRESS D.BAR
	0.15	14.55	1 =10	33,337	24.000	390.7	.000	5.65	104.3							n
1	•	12	18.00	33,337	24.000	390.0	.004	5.65	104.3		.36	. 4	.00	.09	.01	1
	10 15	18.12	18,12	38.456	24.062	384.5	.039	5.59	103.6							10
t	7.1	16.11	18.13	35.467	24.068	353.9	-042	5.59	103.5	2.3	.37	. 6	.00	.08	.01	11
	21. 15	L 16.17	14.16	33.542	24.117	375.6	.077	5.57	103.2							90
	30.15	L 15.21	14.20	33.624	24.171	374.8	.115	5.54	102.9							30
1	3.2	18.21	18.21	33.640	24 . 1 21		.122	5.54	102.9	7.6	.33	. 4	.00	.09	.01	32
1	47	16. 10	16.79	33.502	24.50g	347.9	.157	5.93	196.2	2.7	.34	. 4	.00	.12	.03	42
	50 15	L 15.54	15.54	31.446	24.657	324.0	.185	6.00	105.6							50
1	53	15.41	15.32	* 4.428	24.691		.194	6.02	105.5	2.6	.36	. 4	.00			53
7	64	14.45	14.47	33.326	24.795	376.7	.229	6.08	104.7	2.6	.38	. 4	.00			64
1	74	14.01	14.00	38.303	24.876	308.6	.260	6.03	107.8	2.6	.40	.4	.00	.18	-07	74
	75 15		13.94	33.302	24.889		.764	6.03	102.7							76
1	A 5	13.51	13.50	33.3C4	24.9×1		. 294	6.04	101.9	2.8	.46	.6	.04	. 32	.18	85
1	95	12,00	12.97	33.334	25.100	296.9	.323	5.84	97.5	3.9	-60	2.8	. 29	.26	.27	95
	100 15		12.87	33.350	25.150		.338	5.80	96.4							101
1	104	12.45	12.64	53.3AF	25.200		. 354	5.71	94.7	5.0	.69	5.0	.20	.24	.77	106
1	129	11.4.	11.49	35.45%	25.507		. 193	4.84	78.8	10.4	1.04	11.1	.01	.19	.1^	121
	125 15		11,16	55.500	25.580		.404	4.73	76.0							126
1	136	14.74	16.72	33.596	25.733		.431	4.43	70.6		1.24	14.8	.01	. 35	.07	137
	150 15		10.23	*3.661	25.867		.461	4.12	64.9							151
1	145	9.85	9.83	* 5.707	25.970		.487	3.87	60.5		1.55	19.7	.01	.01	.03	163
1	187	9 . BA	9.^*	55.861	26.218		.537	3.42	52.6		1.79	23.8	.60	.00	.0?	1 * 9
	500 12		2.74	33.916	26.311		.559	3.29	50.2							201
1	1.4	9.41	*.41	*3.970	26.405		.542	3.15	47.8		1.9"	26.5	.10			215
	54, 12		7.75	14.538	26.555			2.71	40.6							252
	305 18		7.09	*4.051	26.661		.717	2.11	31.0							492
1	117	6.**	A.90	*4.067	26.697		.736	1.90	27.9		2.54	34.1	.00			319
	400, 15		• را• ،	34.115	26.844		.845	1,11	16.0							4.03
,	47"	۲.6	4.03	14,11A	24.979		.977	.92	11.2		2.97	39.7	.00			428
	14		4.57	54.206	74.985		.944	.57	8.1							504
•	. 5 .	5.46	5.41	14,236	27.021		.996	.48	6.8		3.21	42.0	•00			< 4.3
	A01 15		4.13	14.296	27.102		1.072	.44	6.1							<del>ለ</del> ቦኝ
	700 15		4.76	34.364	27.198		1.170	. 17	5.2							706
1	795	4.53	4.47	34.416	27.247		1.251	.32	4.4		3.35	44.5	.00			795
	-uc is		4.45	34.411	27.276			.32	4.5							86.2
	1706 15		5.81	14.492	27.394		1.425	.53	7.2							1009

RV NEW HORIZON	FRONTS LEG II	STATION 16 2

RV	<b>NEW HO</b>	RIZON				f RO	NTS LEG I	1						STATIO	)N 16	6
	TUDE	L ONG I TUD 121 Q3.8	E DAY/MO/YR W 18/07/85	MESSEN 0742		BOTTOM	WIND SP	EED W/		EATHER 2	BARON (		DRY 16.7 C		L CUD AF	4 1
CASI	DEPTH	TEMP Deg C	POT TEMP DEG C	SALINITY	SIGMA THE TA		DYN HT	OXYGEN ML/L	OXY	\$103 UM/L	PO4 UM/L	403 U#/L	NO2 UM/L	CHL-A UG/L	FHAEO UG/L	
,	n I	SL 18.99 18.99	19.99 18.99	33.603 33.603	23.958 23.958	394.5 394.1	.000	5.47 5.47	103.1	2.4	.32	.8	.00	.08	.01	
•	10 1	SL 18.98	18.98	33.622	23.974	392.9	.039	5.47	103.1							
1	50 I		18.98 17.95	33.627 33.526	23.978	375.8	.047 .078	5.47 5.67	103.1	2.4	.31	.8	.00	.08	.01	
1	30 1	SL 16.42 15.92	16.41 15.92	33.402 33.368	24.425	350.5 342.4	.114	5.93	106.2	2.4	.34	.8	.00	.10	.01	
i	43	15.08	15.08	33.350	24.684	326.1	.158	6.06	105.6	2.3	.34	.8	.00	.12	.03	
1	50 1 54	SL 14.84 14.75	14.74	33.342 33.338	24.730	322.0 320.4	.181	6.05	104.9	2.3	.35	.8	.00	.14	.03	
į	64	14.22	14.21	33.322	24.847	311.2	.224	6.05	103.6	2.3	.37	. 8	.00	.20	-0.5	
1	75 85	13.71 13.30	13.70 13.29	33.299 33.308	24.935		.258 .288	6.04 5.88	102.3	2.5	.39	1.1	.00	.28	.13	
1	95	12.77	12.75	33.358	25.170	281.1	.316	5.53	91.9	4.7	.61	4.1	.19	.21	.14	
1	100 I	SL 17.61 12.46	12.59 12.44	33.378 33.397	25.217 25.260		.331 .347	5.43 5.36	90.0 88.5	5.6	.71	5.9	.11	.19	.13	
i	120	11.83	11.81	33.450	25.422	257.7	.386	5.06	82.5	8.1	.88	9.0	.04	.13	.13	
1	125 I 136	SL 11.65 11.21	11.63 11.20	33.473 33.534	25.472 25.599	252.9	.399	4.96	80.6 75.8	11.3	1.06	12.2	.02	.09	.19	
	150 I	SL 10.64	10.62	33.595	25.749	227.0	.458	4.41	70.2							
Ţ	162 188	10.13	10.11 9.16	33.651 33.797	25.881 26.151	214.6 189.2	.485	4.14 3.51	65.1 54.1	18.3 26.3	1.39	17.9	.01	.02	.05	
•	500 1	SL 8.91	8.89	33.869	26.250	179.9	.559	3.33	51.0	20.5	1.14			.00	.03	
1	213 250 I	8.6° SL 8.13	R.66 8.11	33.942 34.038	26.344		.582 .642	3.17 2.74	48.4	32.0	1.91	25.9	.01			
	300 I	SL 7.52	7.49	34.051	26.603	145.4	-718	2.21	32.9							
1	317 400 I	7.35 SL 6.30	7.31 6.26	34.073 34.112	26.645 26.818		.743 .855	2.05 1.20	30.4 17.4	50.3	2.40	32.7	.01			
,	423	6.04	6.00	34.121	26.859	124.2	.885	1.00	14.4	71.0	78.5	39.3	.01			
1	500 I 527	SL 5.56 5.45	5.52 5.40	34.196 34.224	26.977 27.013	113.5	.976 1.006	.59 .49	8.3 6.9	85.3	3.14	42.0	.01			
	600 I	SL 5.14	5.10	34.288	27.100	102.6	1.084	.44	6.2		•••		•••			
1	700 I 787	4.55	4.74 4.48	34.362 34.413	27.200		1.182	.38 .32	5.3 4.4	106.7	3.30	44.4	.00			
	800 I	SL 4.50	4.44	34.419	27.278	87.1	1.273	.32	4.5							
1	1053	3.73	3.81 3.65	34.487 34.494	27.398 27.420	76.5 74.6	1.436	.55	7.5 9.0	123.8	3.30	44.8	.00			
6.4	NFW HO															_
							NTS LEG 1							STATIO		7
31 (	11UDE )8.2 4	121 10.2	W 18/07/85	MESSENG 1105 (	5 <b>4</b> T	80110		320		EATHER 2	1015.6		DRY 16.7 C		ELOUD AN	
CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA		DYN HT	OXYGEN ML/L	PCT	\$103 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	EHL-A UG/L	PHAED UG/L	0
1	r i	SL 19.01 19.01	19.01	33.610	23.957	394.4 394.2	.000	5.44	102.5							
	10 I	SL 14.91	19.01 15.91	33.610 33.605	23.957 23.979	392.4	.004	5.44 5.45	102.5	2.6	.43	.4	.00	.08	.01	
1	11	18.90	18.90	33.604	23.981	392.2	-943	5.45	102.5	2.6	.33	-4	.00	.09	.01	
	1 05		15.13 17.00	33.511 33,405	24.102 24.291		.078 .115	5.62 5.84	104.1							
1	33	16.63	16.63	33.376	24.356 24.548	357.2	.126	5.91	106.3	2.6	.35	.4	.00	.08	.01	
1	42	15.71	15.71	33.353			.157	6.03	106.4	2.5	.34	. 4	-00	.09		

	11UDE )8.2 %	121 10.2 W	DAY/MO/YR 18/07/85	MESSENG 1105 G		30110 <b>*</b>	WIND S	SPEED W		WEATHER 2	BARON 1015.		DRY 16.7 C 1		LOUD AM	T TYPE SC
CAST	DEPTH M	TEMP Deg c	POT TEMP DEG C	SALINITY	S I GMA THE TA	SVA	DYN HT	OXYGEN ML/L	OX Y PC T	SIO3 UM/L	P04 UM/L	NO3 UM/L	NO2	CHL-A UG/L	PHAEO UG/L	PRESS 0.BAR
	0 15	L 19.01	19.01	33.610	23.957	394.4	.000	5.44	102.5							0
1	1	19.01	19.01	33.610	23.957	394.2	.004		102.5	2.6	.43	. 4	.00	.08	.01	1
	10 15		15.91	33.605	23.979	392.4	.039		102.5							10
1	11	18.90	18.90	33.604	23.981	392.2	-943		102.5		.33	.4	.00	.09	.01	11
	20 15		15.13	33.511	24.102	381.1	.078		104.1							20
	30 IS		17.00	33,405	24.291	363.3	.119		105.8			•				30
1	33	16.63	16.63	33.376	24.356	357.2	.126		106.3	2.6	.35	.4	.00	.08	.01	33
1	42	15.71	15.71	33.353	24.548	339.1	.157	6.03	106.4	2.5	.34	. 4	.00	.09	.02	42
	50 IS		15.23	33.337	24.642	330.4	.184		105.9							50
1	53	15.10	15.10	33,331	24.665	328.2	.193		105.8		.34	.4		.11	.02	53
1	63	14.56	14.55	33.311	24.768	319.7	.226		104.3	2.6	.35	. 3	.00	.13	.04	63
1	73	14.06	14.05	33.293	24.858	310.4	.257	5.99	102.2	7.7	.36	. 3	.00	.16	-06	73
	75 IS		13.95	33.288	24.875	302.9	.264	5.98	101.9							76
1	84	13.59	13.58	33.281	24.947	302.2	-590	5.96	100.7	2.9	.37	. 3	.00	.23	.15	24
1	94	13.08	13.07	33.326	25.083	789.4	.320		95.3	3.9	.48	1.9	.15	.23	.16	94
	100 I SI		12.78	33.356	25.165	281.8	.338	5.52	91.8							101
1	104	12.61	12.60	33,374	25.212	277.3	.348	5.41	89.6	5.4	.63	4.8	.10	.20	.16	104
1	119	11.61	11.59	33.479	25.484	251.7	-390	4.85	78.7	9.4	.91	10.0	.04	.12	.12	120
	125 IS	L 11.20	11.24	33.510	25.567	243.9	.404	4.72	76.1							126
1	135	10.76	10.74	33.568	25.707	230.6	.429	4.51	71.9	13.3	1.13	14.0	.02	.06	.07	136
	150 15		10.22	33.456	25.866	215.8	.461		65.2							151
1	160	9.93	9.92	33.713	25.961	204.8	.483	3.88	60.8	20.3	1.47	19.4	.01	.02	.16	161
1	186	9.03	9.01	33.823	26.196	184.8	.533	3.46	53.2	27.3	1.74	23.9	.01	.00	.02	187
	200 150		P.78	33,880	26.277	177.4	.559		50.6							201
1	212	8.67	8.65	33.975	26.332	172.3	.579		48.7	31.8	1.87	26.0	.01			213
	250 IS		8.14	34.004	26.471	159.6	.643		42.1							252
	300 15		7.54	34.062	26.604	147.5	.719	2.26	33.7							302
1	315	7.41	7.38	34.069	26.633	144.9	.742		31.1	49.1	2.34	32.5	.01			317
	400 15		6.61	34.164	26.813	128.7	.858		16.2							403
1	423	6.45	6.41	34,183	26.854	124.9	.881	.88	12.8	67.9	2.85	38.3	.00			426
	500 1 SI		5.61	34.217	26.982	113.1	.979		R.1							504
1	527	5.40	5.35	34.227	27.021	109.5	1.008		7.4		3.09	42.1	.00			530
	600 IS		4.97	34.280	27.107	101.7	1.096		6.5							605
	700 IS		4.42	34.351	27.204	91,3			5.3							706
1	79 G	4.53	4.46	34.413	27.270	27.8	1.26			107.0	3.26	44.5	.00			796
	800 IS		4.43	34.418	27.277	P7.1	1.271		4.3							807
	1000 IS		3.79	34.489	27.401	76.2	1.437		7.3							1009
1	1054	3.70	3.63	34.497	27.424	74.1	1.471	. 45	8.8	123.7	1 21	44.0	0.0			1043

	1 TUDE 49.7 N	LONGITUDE 121 19.5 W	DAY/MO/YR 18/07/85	MESSENG 1424 G		0110#	WIND SP	320 320		REATHER 2	BAROM:		DRY 16.7 C 1		8/8 LCUD **	T TYPE SC
CAS	T DFPTH M	TE®P DEG C	POT TEMP DEG C	SAL INTTY	SIGMA ATBHT	SVA	DYN HT	OXYGEN ML/L	OXY PCT	\$103 Um/L	P04 U#/L	NO3 Um/L	NO? UM/L	CHL-4 UG/L	PH4E0 US/L	PPESS S.BAR
	0 1 S		19.02	33.594	23.943	395.6	.000	5.44	102.5							0
1	. 1	19.02	19.02	33.594	23.943	395.5	-004	5.44	102.5		.29	.4	.00	.09	.01	. 1
_	10 15		18.99	33.601	23.956	394.6	.040	5.45	102.7			_				10
1	11	18.94	18.99	33.622	23.958	394.5	.043	5.45	102.7	2.6	.29	. 3	.00	.09	.01	11
	26 15		18.12	33.508	24.100	3*1.2	.078	5.65	104.6							Σu
	30 IS		16.90	33.400	24.312	361.3	-115	5.90	106.6							30
1	42	16.64 15.72	16.63 15.71	33.380 33.353	24.358	357.0 339.2	.122	5.95	107.0		.31	. 3	.00	-10	.01	32 47
'	50 I S		15.12			329.4	.157	6.07	106.0		.30	.3	.00	.11	.01	57
1	52 15	15.02	15.02	33.336 33.332	24.663	326.5	.184	6.08 6.08	105.8		• •			.13	.02	52
i	64	14.56	14.55	33.332	24.767	319.8	.229	6.07	104.7	2.8	.30	.3	.00	.15	.03	64
i	73	14.27	14.21	33.305	24.834	317.7	.257	6.05	103.6		.30	.3	.00	.20	.06	73
,	75 Is		14.15	33,301	24.844	311.8	.264	6.05	103.4	2.1	. 30	.,	.00	. 20	.00	76
1		13.04	13.93	33.297	24.880	308.6	.248	6.02	102.5	2.7	.33	.3	.90	.23	.13	P 3
í	93	13.44	13.47	33,276	24.964	300.8	.318	5.92	99.8	3.2	.37	.3	.01	.28	.1?	93
	100 15		13.17	33.302	25.043	293.4	.340	5.74	96.2			• • •			• • •	101
1	104	13.04	13.03	33.320	25.087	289.3	.351	5.64	94.2		.48	2.3	-13	.27	.13	104
1	119	12.34	17.12	33.408	25.293	270.0	.392	5.22	P6.0		.68	6.4	.05	.19	.16	119
	125 15		12.01	33.461	25.393	260.5	.409	5.05	82.7		•••	•••		,	• • •	126
1	133	11.42	11.60	35.529	25.522	248.4	.431	4.85	78.7	9.8	.86	10.0	.02	.11	.10	134
	150 15		10.78	33.603	25.727	229.2	.471	4.54	72.5		•		•••	•	•	151
1	159	10.37	10.36	33.635	25.826	219.8	401	4.35	68.8					.02	.04	160
1	185	9.57	9.51	33.776	24.07*	196.2	.545	7.48	54.1	25.1	1.61	22.4	.01	. 21	.02	186
	200 IS	L 9.1⊱	9.16	33.853	26.195	185.3	.573	3.22	49.6				-			201
1	211	2.56	9.04	33.904	26.270	178.3	. 593	3.08	47.3	31.1	1.80	25.5	.01			212
	256 IS		۹.29	34.008	26.451	161.6	.660	2.66	40.2							252
	፣ንሮ ፤ ነ		7.67	34.069	26.599	144.1	.737	2.22	33.2							302
1	312	7.50	7.47	34.070	26.621	146.1	.757	2.13	31.7	48.6	2.23	32.0	.01			315
	40C 15		6.35	34.103	26.800	129.7	.876	1.33	19.2							403
1	421	6.15	6.12	34.107	26.832	126.7	_904	1.15	16.6	69.3	2.68	38.3	.01			424
	500 LS		5.56	34.171	26.953	115.8	.999	.69	9.8							504
1	574	5.47	5.43	34.192	26.985	112.9	1.026	.59	8.4	84.5	2.97	41.4	.01			527
	600 18		5.09	34.262	27.079	104.6	1.109	.52	7.3							505
	700 15		4.73	34.343	27.184	95.3	1.209	.42	5.9							706
1	783	4.57	4.51	34.402	27.257	29.0	1.286	.34		107.5	3.13	44.0	.00			799
	500 12		4.45	34.411	27.270	87.8	1.301	.34	4.8							807
	1202 15		3.79	34.482	27.396	76.7	1.455	.56	7.6			_				1000
1	1344	3.77	3.65	34.487	27.414	75.0	1,498	.65	8.8	124.2	3.17	44.7	-01			1052

PROPERTY STATES AND STATES OF THE STATES AND STATES OF THE STATES OF THE

LATITUDE LONGITUDE DAY/MO/YR MESSENGER ROTTOM WIND SPEED WAVES WEATHER BAROMETER DRY WET CLOUD AM 1 TY 30 49.7 N 121 15.9 W 19/07/R5 0903 GMT 340 05 KT 320 03 2 1015.9 MB 17.2 C 15.6 C 3/R S CAST DEPTH TEMP POT TEMP SALTMITY SIGMA SVA DYN HT OXYGEN OXY SIO3 PO4 NO3 NO2 CHL-A PHAEO PRE

								/** I P C IV								
	4	DEG C	DFG C		THETA			ML/L	PET	U#/L	UM/L	UM/L	U=/L	U6/L	UF/L	D.BAR
	O ISL	18.93	18.95	33.490	23.886	401.8	.000	5.46	102.7							٥
1	2	18.93	15.93	33,490	23.886	401.0	.008	5.46	102.7	2.8	.40	. 1	.00	.07	.01	5
	10 ISL	18.77	18.77	33.482	23.922	397.9	.040	5.48	102.4		-					17
1	12	14.73	18.72	33.480	23.930	307.1	-C48	5.49	102.8	2.8	.39	.1	.00	.08	.00	12
	20 ISL	17.82	17.82	33.436	24.120	379.4	.079	5.68	104.5		•	-				20
	3C 1SL	16.55	16.54	33.382	24.381	354.7	.116	5.92	106.2							30
1	33	16.15	16.14	33.368	24.462	347.1	.126	5.90	106.7	2.7	.40	.0	.00	.09	.01	33
1	43	15.41	15.41	33,330	24.596	334.5	.160	6.06	106.3	2.7	.39	.0	.00	-10	.01	43
	50 1 SL	15.00	14.99	33.32?	24.681	374.7	.183	63.6	105.4							50
1	54	14.52	14.81	33.320	24.719	323.1	.196	6.06	105.0	2.4	.39	.0	.00	.14	.03	54
1	64	14.44	14.43	33.313	24.794	316.2	.228	6.06	104.2	2.7	.40	.0	.00	.17	.05	64
1	74	14.CP	14.07	33.300	24.860	310.3	.259	5.700	97.30	2.7	.41	.1	.00	.20	.07	74
	75 ISL	14.05	14.04	3.299	74.865	309.8	.263	6.03								76
1	85	13.77	13.76	33,297	24.917	305.1	.293	5.95	100.9	2.9	.42	.1	.00	.25	.15	85
1	95	13.19	13.17	33.280	25.028	294.7	.322	5.76	96.5	3.5	.49	.6	.10	.28	.18	95
	100 ISL	12.98	12.96	33,314	25.095	288.4	.338	5.63	93.9							101
1	105	12.21	12.80	33.351	25.156	282.7	.351	5.50	91.5	4.3	.56	3.2	.11	.24	.16	105
1	121	11.95	11.93	33.446	25.396	260.2	.394	5.00	81.7	8.4	.87	8.1	.03	, 14	.14	121
	125 I SL	11.77	11.75	33.473	25.450	255.1	.406	4.92	80.2							126
1	135	11.36	11.34	33.535	25.574	243.4	.432	4.74	76.5	10.9	1.01	10.9	.02	.09	.09	136
	150 ISL		10.50	33.636	25.802	221.9	.466	4.19	66.5							151
1	161	9.90	9.88	33.715	25.969	206.1	.490	3.75	58.7	21.6	1.57	20.0	.01	.01	.03	162
1	187	9.2%	9.26	*3.83*	26.164	188.0	.541	3.28	50.7	27.8	1.83	23.7	.01	.00	.02	188
	500 ISL	9.01	P.Q9	33.891	26.252	179.8	.565	3.12	47.9							201
1	213	8.76	8.74	33.944	26.333	172.3	.587	2.98	45.6	33.3	1.97	26.1	.01			214
	250 ISL	8.15	R.12	34.016	76.485	159.4	.649	86.5	40.5							252
	300 ISL	7.45	7.42	34.036	26.601	146.2	.725	2.32	34.4							302
1	316	7.25	7.??	34.05*	26.643	141.0	.748	2.21	32.7	50.4	2.39	32.2	.01			318
	400 ISL	6.24	6.25	34.105	26 . 813	120.3	.867	1.29	18.6							403
1	424	6.07	6.03	34.120	26.854	124.6	.893	1.03	14.8	70.8	2.89	19.0	.01			427
	500 ISL	5.63	5.59	34.201	26.972	114.0	.983	.57	8.1							504
1	52*	5.52	5.47	34.232	27.011	110.6	1.014	.46	6.5	84.9	3.15	41.7	.00			531
	600 ISL	5.20	5.15	34.295	27.098	162.9	1.392	.47	5.0							605
	700 ISL	4.81	4.76	34.365	27.199	94.0	1.190	.36	5.0							706
1	790	4.51	4.45	34.412	27.271	\$7.6	1.272	.31	4.3	107.6	3.51	44.4	.00			796
	₽00 1SL	4.48	4,41	34.417	27.274	87.0	1.281	.31	4.3							807
	1000 ISL	3.×c	3.78	34.484	27.358	76.4	1.444	.51	7.0							1009
1	1053	3.71	3.05	34.492	27,419	74.6	1,484	.61	# 3 ·	174.5	3.27	44.7	.00			1062

RV NEW HORIZON	FRONTS LEG II	STATION	19	7
----------------	---------------	---------	----	---

	TUDE 18.2 N	LONG I TUDE 121 10.5 W	DAY/MO/YR 19/07/85	MESSENG 1308 G		BOTTOM	WIND S	PEED W		WEATHER 2	BAROM (		DRY 17.2 C		CLOUD AM	T TYPE SC
CASI	DEPTH M	TEMP Deg C	POT TEMP DEG C	SALINITY	SIGMA THE TA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	5103 UM/L	PO4 UM/L	NO3 UM/L	NO2	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0 IS	18.85	18.85 18.85	33.541 33.541	23.945	395.3 395.4	.004	5.44 5.44	102.2	2.7	.32	.1	.00	.08	.01	0 1
1	10 IS 11 20 IS	18.87	18.87 18.87 18.56	33.537 33.537 33.526	23.939 23.938 24.006	396.3 396.3 390.2	.040 .043	5.45 5.45 5.51	102.4	2.6	.31	.0	.00	.09	.00	10 11 20
1	30 IS	18.23 18.17	18.22 18.16	33.514 33.512	24.091	383.4 382.1	.118	5.59 5.60	103.7	2.6	.30	.0		.10	.01	30 32
1	42 50 IS 53	15.75 L 15.19 15.13	15.75 15.19 15.12	33.352 33.332 33.331	24.538 24.647 24.660	340.1 330.0 322.8	.161 .188 .197	6.05 6.05 6.05	106.9 105.7 105.5		.32	.0	.00	.10	.01	47 50 53
1	63 73 75 IS	14.49 14.05 L 13.9#	14.48 14.04 13.97	33.312 33.291 33.287	24.858 24.858 24.870	317.3 310.3 309.3	.230 .261 .268	6.05 5.99 5.98	104.2 102.2 101.9	2.5	.34	.0		.15	.03	63 73 76
1	84 94	13.72 13.33	13.71 13.32	33.280 33.300	24.918 25.014	304.9	.294	5.93 5.82	100.5	2.6 3.4	.37	.0 .5	.00	.22	.15	84 94
1	100 IS 104 120	12.97 12.76 11.92	12.75 12.75 11.91	33.341 33.367 33.457	25.116 25.178 25.409	286.4 280.6 258.8	.343 .353 .396	5.65 5.53 5.01	94.2 91.9 81.8	4.8	.60 .84	3.6 7.9	.19	.21	.13	101 104 120
1	125 IS 134 150 IS	11.07	11.58 11.06 10.45	33.505 33.585 33.652	25.506 25.664 25.823	249.7 234.8 219.9	.410 .433	4.86 4.62 4.27	78.8 74.2 67.7	12.4	1.08	12.1	.02	.07	.07	126 135 151
1	160 186	10.13 9.08	10.11 9.06	33.682 33.812	25.905 26.179	212.2 186.5	.490	4.06 3.50	63.9 53.8	18.8	1.40	17.3	.01	.02	.04	161 187
1	200 IS 212 250 IS	R.74	8.83 8.71 8.11	33.870 33.914 34.000	26.260 26.313 26.472	178.9 174.1 159.5	.567 .598 .652	3.32 3.19 2.72	50.8 48.7 41.0	31.8	1.91	25.2	.00			201 213 252
1	300 IS 314 400 IS	7.20	7.37 7.17 6.54	34.068 34.078 34.171	26.633 26.669 26.828	144.7 141.4 127.2	.728 .748	2.13 1.96 1.05	31.5 28.9 15.3	52.3	2.48	32.8	.00			302 316 403
1	422 500 IS	6.44 L 5.64	6.40 5.60	34.186 34.202	26.858	124.6	.892 .984	.86 .57	12.5	68.7	2.93	37.6	.00			425 504
1	525 400 IS 700 IS		5.35 4.95 4.59	34.205 34.262 34.344	27.005 27.096 27.201	111.0 102.7 93.5	1.012	.53 .47 .40	7.5 6.6 5.5		3.14	41.2	.00			528 605 706
1	787 800 IS	4.50 L 4.46	4.44 4.40 3.79	34.419 34.426 34.495	27.278 27.288 27.407	87.0 86.1	1.269	.33	4.6	109.4	3.32	43.6	.00			793 807
1	1053	3.71	3.63	34.500	27.426	75.6 73.9	1.442		7.4 5.8	124.6	3.29	43.9	.00			1009 1062

HV NEW HORIZON FRONTS LEG 11 STATION 20 3

	11UDE 22.0 4	LONGITUDE 121 03.5 W	DAY/MO/YR 19/07/85	MESSENG 1727 G		80110#		SPEED 96 KT	330 C		R SHTASW	BAROME 1018.3		DRY 17.8 C		CLOUD AM 8/8	T TYPE SC
CASI	H 75 G 1	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THE TA	SVA	DYN H		GEN /L	OXY PCT	STO3 UM/L	PO4 UM /L	NO3 UM/L	NOZ UR/L	CML-A UG/L		PRESS D.BAR
	0 15	18.21	18.81	33.480	23.909	398.9	.00	0 5.	45	107.3							0
1	1	18.91	18.81	33.480	23,909	397.8	.00			102.3	2.4	.32	.1	.00	.98	.01	1
	10 15		18.78	33.480	23.917	398.4	.04			103.1							10
1	11	18.78	18.78	33.48C	23.918	392.3	.04		51	103.3	2.3	.32	.1	.00	.08	.01	11
	20 IS		17.90	33.434	24.099	381.3	.07			105.1							20
	30 15		16.68	33.386	24.351	357.6	-11			106.5							30
1	32	16.43	16.42	33.378	24.404	352.6	.12		96	106.7	2.4	.32	.1				32
1	42	15.61	15.60	33.359	24.576	336.5	.15			106.4	2.5	.31	.1	.00	.10	-02	42
	50 IS		15.12	33.344	24.670	327.7	.18			105.4							50
1	5.5	14.79	14.98	33,338	24.696	325.3	.19			105.1	2.5	.32	. 1				53
1	63	14.51	14.50	33.319	24.785	317.1	.22			103.9	2.4	.32	-1				63
1	74	14.06	14.04	33.293	24.860	310.3	.25		98	102.0	2.4	.34	. 1	.00	.19	.06	74
	75 15		13.99	33,291	24.870	309.3			97	101.8							76
1	84	13.62	13.61	33.291	24.947	302.1	. 29		91	99.9	2.6	-36	.1				84
,	94	13.21	13.19	33.296	25.035	294.0	.32		78	96.9	3,5	.43	-6	.08	. 29	.18	94
	100 15		12.97	33.321	25.099	798.0			65	94.2							101
1	105	12.81	12.79	33.343	25.150	293.2	.35		53	97.0	4.6	.55	3,1				105
1	119	12.04	12.03	33.421	25.358	263.7	.39		08	83.2	7.5	.78	7.4	.04	.19	.13	120
	125 15		11.85	33.440	25.414	258.6	-40		98	A1.2							126
1	135	11.55	11.53	13.498	25.510	240.6	.43		82	78.1	9.7	.93	10.0	.02	.11	.11	136
	150 15		10.89	33.563	25.677	233.9	.46		55	72.8							151
1	161	10.39	10.37	33.619	25.812	221.2			31	68.2		1.27	15.8				162
1	186	9.47	9.45 9.02	33.777 33.853	26.089	195.1	.54		.64	56.5	24.2	1.63	21.6	.01	.01	.05	187
,	200 IS	L 9.04 8.72	8.70	33.911	26,313	183.1 174.1	.57		41	52.4	•• •	1.85					201
•	250 15		7.02	34.019	26.500	156.7			70			1.65	25.3	.01			213
	30C IS		7.41	34.086	26.641	143.9	.65		.08	40.6 30.8							252 302
1	315	7.32	7.29	34.088	26.661	147.7	.75		91	28.3	51.6	2.45	33.1	.01			317
•	400 15		6.19	34.123	26,836	126.1	.86		34	19.3	31.0	2.43	33.1	.01			403
1	422	5.98	5.94	34,128	26.871	122.9	.89		22	17.5	77.4	2.91	39.4	.01			425
,	500 15		5.43	34.198	76.989	117.2	.98		64	6.0		2.71	37.4				504
1	525	5.36	5.31	34.222	27.022	100.3	1.01		47	6.6		3.14	42.3	.01			528
•	600 15		5.02	34.287	27.108	101.8	1.09		43	6.0		3.14	42.3				605
	700 15		4.70	34.361	27.203	93.5	1.19		37	5.2							706
1	786	4.55	4.49	34.413	27.267	98.1	1.26		32	4.4	105.8	3.28	44.4	.00			792
•	800 15		4.45	34.420	27.277	87.2	1.28		32	4.5		3,60					807
	1000 15		3.81	34.488	27.398	76.5	1.44		53	7.3							1009
1	1051	3.72	3.65	34.494	27.420	74.5	1.48		63		124.3	3.27	44.9	.00			1760

gen essent execute anappe announce reseases participal engineers between the contract of the c

RY MEW MORIZON	SEGNIZ LEG II	21811UM	٠,	•

RV NEW HORIZ	04				FRON	75 LEG II							STATIO	N 21	3
	DNG]TUDE 20 56.2 w		MESSENG 2138 G		770	WIND SPE	ED WA		EATHER 2	BAROME		9 C 1	WET ()	L CUD AM	1 141 SC
CAST DEPTH	TEMP DEG C	POT TEMP DEG C	SALINITY		SVA	DYN HT	OXYGEN ML/L	OXY PCT	\$103 UP/L	P04 UP/L	403 UM/L	WOZ UP/L		PHAEO UG/L	P9E 5
	18.16 13.16	18.16 18.16	33.357 33.357	23.975	395.1 392.5	.000 800.	5.59	103.5	2.2	.34	.0	.00	.12	.01	
10 ISL 1 12 20 ISL	17.66 17.56 17.32	17.66 17.56 17.31	33.327 33.323 33.330	24.075 24.096 24.160	383.3 381.3 375.5	.039 .046 .077	5.66 5.67 5.72	103.7 103.8 104.1	2.2	.34	.0	.00	.11	.01	1
30 ISL 1 33 1 42	17.01 16.93 15.43	17.01 16.92 15.43	33.339 33.342 33.341	24.239 24.261 24.600	369.3 366.2 334.1	.114 .125 .156	5.77 5.79 6.08	104.6 104.7 106.7	2.3	.34	.0	.00	.14	.02	3
	14.91 14.81	14.90 14.80 14.44	33.358 33.362 33.356	24.728 24.753 24.825	322.2 310.9 313.3	.183 .195 .226	6.07 6.07	105.5 105.2 103.6	2.7	.34	.0	.00	.20	.05	5 5 6
1 75 1 85	14.45 13.86 13.58	13.85 13.57	33.322 33.462	24.921 25.088	304.4 258.7	.260	6.14 5.67	104.4 95.9	2.9	.39	1.7	.01	.31 .24 .19	.10	7 4
1 94 100 ISL 1 106	17.61 12.32 12.02	12.60 12.31 12.00	33.402 33.404 33.422	25.235 25.291 25.364	275.0 269.7 262.8	.321 .333 .347	5.63 5.53 5.36	93.3 91.1 87.7	5.2 7.1	.69 .85	4.6 7.9	.75	.14	.09	10
1 121 125 ISL	11.31 11.16	11.29 11.14	33.558 33.568	25.600 25.635 25.736	240.6 237.3 227.9	.387 .396	4.66 4.59 4.42	75.2 73.8 70.3	11.9	1.07	12.0	.03	.09	.12	12 12 13
1 136 150 ISL 1 162	9.66	10.66 10.10 9.64	33.588 33.645 33.710	25.876 26.005	214.5	.42Z .453 .478	4.11 3.82	64.6 59.5	22.1	1.56	20.1	.01	.01	.03	15
1 188 200 ISL 1 213	9.06 8.79 8.51	9.04 *.77 *.48	33.855 33.907 33.955	26.216 26.300 26.381	182.9 175.2 167.6	.528 .549 .571	3.34 3.27 3.24	51.4 50.1 49.2	28.6 33.6	1.81	23.8	.01	.00	.03	20 21
250 ISL 300 ISL 1 315	7.85 7.16 6.98	7.83 7.13 6.96	34.026 34.048 34.064	26.534 26.651 26,688	153.5 141.5 139.5	.631 .705 .726	2.85 2.21 1.99	42.7 32.6 29.2	54.6	2.50	33.4	.01			25 30 31
400 ISL 1 421	6.14 5.98	6.11 5.94 5.47	34.115 34.127 34.208	26.840 26.870 26.993	125.7 122.9 111.9	.838 .865 .957	1.16 .99 .59	16.7 14.2 8.4	72.9	2.93	39.0	.00			40 42 50
500 ISL 1 523 600 ISL	5.51 5.40 5.67	5.36 5.02	34.233 34.301	27.026 27.119	109.0 100.7	.982 1.063	.52 .48	7.4 6.7	87.6	3.16	41.6	.00			52 60
700 ISL 1 782 800 ISL	4.71 4.46 4.40	4.65 4.40 4.34	34.374 34.420 34.428	27.219 27.283 27.296	92.0 86.4 85.2	1,160 1,233 1,248	.42 .37 .38	5.8 5.1 5.2	107.5	3.29	43.9	.00			76 78 80
1900 ISL 1 1055	3.43 3.49	3.75 3.61	34.490 34.494	27.406 27.424	75.6 74.1	1,409	.52 .68	7.9 9.2	125.1	3.26	44.1	.00			100 106
PV NEW HORIZ	ON				FRON	TS LEG 11	r						STATLO	N ?2	: 3
	.ONGITUDE		MESSEN		MOTTO	WIND SP	EED W		EATHER 1	BAROM:		DRY 8.9 C 1	WET C 6.7 C	L CUD AF 7/8	T TYP
CAST DEPTH	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	\$103 UM/L	PO4 UM/L	NO3 U4/L	N05	CHL-A UG/L	PHAE0	PRES D.BA
1 1	17.52 17.52	17.52 17.52	33.274 33.274	24.067 24.067	384.4 383.7	.000	5.61 5.61	102.6 102.6	2.2	.36	.1	.00	.12	.01	
10 ISL 1 11 20 ISL	17.20 17.17 16.73	17.20 17.16 16.73	33.270 33.269 33.256	24.140 24.148 24.240	377.0 376.2 367.8	.038 .042 .075	5.70 5.71 5.79	103.6 103.7 104.2	2.2	.37	.0	.00	.12	.01	1 2
30 ISL 1 32 1 42	16.25 16.16	16.25 16.16 14.01	33.245 33.243 33.246	24.342 24.361 24.832	358.4 356.6 312.0	.112 .118 .152	5.87 5.89 6.32	104.7 164.8 107.7	2.0	.3e	.0	.00	.14	.04	3 3 4
50 ISL 1 52	14.01 13.00 12.89	12.99 12.89	33.154 33.144	24.965 24.979	290,4	.177 .182	6.35	106.0	2.9	.45	.1	.01	.23	.10	5
1 62 1 73 75 ISL	13.36 13.16 12.99	13.35 13.15 12.98	33.406 33.470 33.462	25.088 25.178 25.206	298.0 279.8 277.2	.211 .242 .249	5.86 5.44 5.42	98.6 91.2 90.5	5.4	.51 .61	1.2 3.1	.14	.33	.14	6 7 7
1 83 1 93 100 ISL	12.35 11.82 11.44	12.34 11.81 11.43	33.432 33.468 33.464	25.307 25.435 25.503	267.7 255.6 249.4	.269 .296 .314	5.3R 5.24 5.09	88.7 85.4 82.2	6.9 8.3	.78 .96	6.1 9.4	.17 .08	.20	.08	8 9 10
1 103	11.37 10.79	11.31 10.77	33.463 33.561	25.524 25.696 25.793	247.3 231.3	.321 .356	5.03 4.80	81.1 76.6	11.0	1.09	11.5 15.7	.06	.12	.07 .05	10 11 12
	10.44	10.42 10.03 9.48	33.607 33.659 33.768	25.900 26.077	222.2 212.1 195.5	.373 .392 .425	4.51 4.13 3.49	71.3 64.9 54.2	20.4	1.57	19.5	.02	.03	.05	13
125 ISL 1 133 150 ISL	10.05 9.49		33.816 33.903	26.147	188.9 177.5	.441 .489 .516	3.24 2.97 2.91	50.1 45.6 44.2	28.3	1.85	24.D 25.8	.01	.00	.03	15 18 20
125 ISL 1 133 150 ISL 1 158 1 184	9.49 9.29 8.94	9.27 R.92 8.54		20.371	166.3		2.88	43.6		2.07	27.4	.01			21
125 ISL 1 133 150 ISL 1 158 1 184 200 ISL 1 209 250 ISL	9.49 9.29 8.94 8.56 8.34 7.75	R.92 8.54 P.32 7.72	33.954 33.980 34.042	26.371 26.426 26.562 26.647	163.2 150.7	.531 .595	2.55	38.2	36.7						25
125 ISL 1 133 150 ISL 1 158 1 184 200 ISL 1 207 250 ISL 300 ISL 3 312 400 ISL	9-49 9-29 8-94 8-56 8-34 7-75 7-27 7-20 6-25	R.92 8.54 P.32 7.72 7.25 7.17 6.22	33.954 33.980 34.042 34.064 34.075 34.133	26.426 26.562 26.647 26.667 26.840	163.2 150.7 142.4 141.5 125.8	.531 .595 .669 .686	2.55 2.05 1.91 1.03	38.2 30.3 28.2 14.9	53.4	2.52	33.3	.01			25 30 31 40
125 ISL 1 133 150 ISL 1 158 1 184 290 ISL 1 207 250 ISL 300 ISL 1 312	9.49 9.29 8.94 8.56 8.34 7.75 7.27 7.20	R.92 8.54 P.32 7.25 7.17 6.27 6.05 5.64 5.56	33.954 33.980 34.042 34.064 34.075 34.133 34.146 34.234	26.426 26.562 26.647 26.667 26.840 26.872 26.993 27.019	163.2 150.7 142.4 141.5 125.8 122.9 112.2 109.8	.531 .595 .669 .686 .803 .826 .922	2.55 2.05 1.91 1.03 .87 .46	38.2 39.3 28.2 14.9 12.5 6.6 5.7							29 30 31 40 42 50
125 ISL 1 133 150 ISL 1 158 1 184 200 ISL 1 207 250 ISL 300 ISL 1 312 400 ISL 1 418 500 ISL	9-49 9-29 8-56 8-34 7-75 7-27 7-20 6-25 5-65 5-61 5-24	R.92 8.54 P.32 7.72 7.25 7.17 6.27 6.05 5.64 5.56 5.19 4.77	33.980 34.042 34.064 34.075 34.133 34.146 34.236 34.256 34.317 34.377	26.426 26.562 26.647 26.667 26.840 26.872 26.993 27.019 27.111 27.208	163.2 150.7 142.4 141.5 125.8 122.2 109.8 101.7 93.2	.531 .595 .669 .686 .803 .826	2.55 2.05 1.91 1.03 .87	38.2 39.3 28.2 14.9 12.5 6.6	53.4 72.8	2.52	33.3 39.2	.01 .01			25 30 31 40 42 50 70 78
125 ISL 1 133 1 150 ISL 1 158 200 ISL 1 207 250 ISL 300 ISL 300 ISL 400 ISL 1 418 500 ISL 500 ISL 500 ISL 500 ISL 500 ISL 770 ISL	9-49 9-294 8-53-7-29 8-77-225 6-69 5-651 5-24 4-55	R.92 8.54 P.32 7.72 7.25 7.17 6.22 6.05 5.64 5.56 5.19	33.954 33.980 34.042 34.064 34.075 34.133 34.146 34.234 34.317	26.426 26.562 26.647 26.667 26.840 26.872 26.993 27.019 27.111	163.2 150.7 142.4 141.5 125.8 122.9 112.2 109.8 101.7	.531 .595 .669 .686 .803 .826 .922 .945 1.029	2.55 2.05 1.91 1.03 .87 .46 .40 .38	38.2 30.3 28.2 14.9 12.5 6.6 5.7 5.3 4.9 4.6 4.7 7.3	53.4 72.8 84.8	2.52 2.95 3.19	33.3 39.2 41.4	.01 .01 .01			25 30 31 40 42 50 70 78 80 100

	100E 4.8 N	LONGITUDE 120 50.8 W	DAY/MO/YR 20/07/R5	MESSENG 0116 G		BOTTOM	MIND	SPEED W		WEATHER 1	BAROM:		DRY 18.9 C 1		LCUD AM 7/8	T TYPE SC
CAST	DEPTH	TEMP Deg C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN H	T ØXYGEN ML/L	OXY PCT	\$103 Um/L	P04 UM/L	NO 3 U4/L	NO2	CHL-A UG/L	PHAE0	PRESS D.BAR
	0 15	L 17.52	17.52	33,274	24.067	384.4	.00		102.6							0
1	. 1	17.52	17.52	33.274	24.067	383.7			102.6		.36	,1	.00	.12	.01	10
	10 15		17.20	33.270	24.140	377.0	.03		103.6				.00	.12	.01	11
1	11	17.17	17.16	33.269	24.148	376.2	.04		103.7		.37	.0	.00			žά
	50 13		16.73	33.256	24.240	367.8 35=.4	.07		104.7							30
	30 150		16.25 16.16	33.245 33.243	24.361	356.6	.11		104.8		.38	.0	.00	.14	.04	35
1	32	16.16	14.01	33.246	24.832	312.0	.15		107.7		.39	.ŏ		.19	.09	42
1	42	14.01	12.99	33.154	24.965	290.4	.17		106.0		.34		.00		,	50
	50 IS	12.89	12.89	33.144	24.979	29*.2	18		105.8	2.9	.45	. 1	.01	.23	.10	52
1	62	13.36	13.35	33.406	25.088	298.0	.21		98.6		.51	1.2		.26	.14	62
1	73	13.16	13.15	33.470	25.178	279.8	.24		91.2		.61	3.1		.33	.13	73
•	75 IS		12.98	33.462	25.206	277.2	.24		90.5		•••	٠.,		• • • •	•	76
1	83	12.35	12.34	33.432	25.307	267.7			88.7		.78	6.1	.17	.20	.11	83
i	93	11.82	11.81	33,46R	25.435	245.6			85.4		.96	9.4		.15	.08	93
'	100 I S		11.43	33.464	25.503	240.4	.31		82.2		• • • •	•	••••	•	•	101
1	103	11.32	11.31	33.463	25.524	247.3			81.1		1.09	11.5	.06	.12	.07	103
•	117	10.79	10.77	33.561	25.696	231.3	.35		76.6		1.32	15.7		.05	.05	118
•	125 15		10.42	33.607	25.793	222.2			71.3							126
•	133	10.05	10.03	33.659	25.900	212.1	.39		64.9		1.57	19.5	.02	.03	.05	134
•	150 15		9.48	33.768	26.077	195.5			54.2							151
1	158	9.29	9.27	33.816	26.147	188.9			50.1		1.85	24.0	.01	.01	.04	159
i	184	8.94	R.92	33.903	26.273	177.5			45.6		1.97	25.8	.01	.00	.03	185
	200 15		8.54	33.954	26.371	166.3			44.2							201
1	207	8.34	P.32	33.980	26.426	163.2			43.6	36.7	2.07	27.4	.01			210
	250 Is		7.72	34.042	26.562	150.7			38.2							252
	300 IS		7.25	34.064	26.647	142.4			39.3							302
1	312	7.20	7.17	34.075	26.667	141.5	.68	6 1.91	28.2	53.4	2.52	33.3	.01			314
	400 IS	L 6.25	6.27	34.133	26.840	125.8	.80	3 1.03	14.0							403
1	418	6.09	6.05	34.146	26.872	122.9	.82	6 .87	12.5	72.8	2.95	39.2	.01			421
	500 IS	L 5.65	5.64	34.234	26.993	112.2	.92	2 .46	6.6							504
1	521	5.61	5.56	34.256	27.019	109.8			5.7		3.19	41.4	.01			524
	600 IS	L 5.24	5.19	34.317	27.111	101.7			5.3							605
	700 15	4.82	4.77	34.377	27.208	91.2			4.9							706
1	778	4.53	4.47	34.410	27.267	87.9			4.6		3.32	44.1	.00			784
	#00 IS		4.39	34.420	27.283	84.5			4.7							807
	1000 IS	L 3.90	3.83	34.483	27.393	77.0	1.38	0 .53	7.3			_				1009

RV NEW MORIZON	FR	ONTS LEG II		STATEON 23 3
LATITUDE LONGITUDE DAY/NO/YR 31 54.7 N 120 46.0 W 20/07/85	MESSENGER BOTTOM 0448 GMT	WIND SPEED WAVES WEATHE 330 11 KT 340 02 2		WET CLOUD ANT TYPE
CAST DEPTH TEMP POT TEMP M DEG C DEG C	SALINITY SIGMA SVA THETA	DYN HT OXYGEN OXY SIC ML/L PCT UM/		
0 ISL 17.28 17.28 1 1 17.28 17.28	33.285 24.132 377. 33.285 24.132 377.	.004 5.72 104.1 1.7	.38 .1 .0	
10 ISL 17.20 17.20 1 11 17.20 17.19 20 ISL 16.23 16.23	33.278 24.146 376. 33.277 24.147 376. 33.272 24.368 356.	.041 5.85 106.3 1.6	.39 .0 .0	10 01 .13 .02 11 20
30 ISL 14.90 14.89 1 32 14.61 14.61 1 42 13.65 17.65	33.266 24.660 328. 33.265 24.720 322. 33.267 24.922 303.	.115 6.16 106.3 2.0		
50 LSL 13.22 13.22 1 52 13.15 13.14	33.298 25.028 293. 33.298 25.047 291.	.170 6.16 103.4 2 .176 6.11 102.3 2.9	.47 .3 .0	50 50 80 .31 .08
1 73 12.11 12.10 75 ISL 12.02 12.01	33.313 25.157 281. 33.323 25.268 271. 33.326 25.287 249.	: .234 5.76 94.4 4.9 : .241 5.73 93.8	.79 5.7 .3	i2 .34 .13 73 76
1 83 11.78 11.77 1 93 11.50 11.49 100 ISL 11.2P 11.26	33.345 25.347 263. 33.399 25.441 255. 33.472 25.539 246.	.247 5.33 56.3 8.7		
1 104 11.16 11.15 1 118 10.64 10.63	33.508 25.587 241. 33.603 25.754 225.	.314 4.83 77.6 11.8 1 .349 4.45 70.8 16.6		07 .13 .10 104 06 .08 .07 119
125 ISL 10.32 10.30 1 133 9.91 9.90 150 ISL 9.43 9.42	33.672 25.864 215. 33.762 26.003 202. 33.863 26.161 187.	.381 3.49 54.7 24.9 413 3.02 46.9		151
1 159 9.25 9.23 1 184 8.68 8.67 200 ISL 8.47 8.45	33.898 26.219 18?. 33.990 26.380 167. 34.023 26.440 161.	.474 2.63 40.1 37.0		
1 210 8.36 8.34 250 ISL 7.84 7.81	34.037 26.468 159. 34.064 26.567 150.	.516 2.61 39.6 39.9 .578 2.38 35.7	2.17 28.3 .0	)2 211 252
300 ISL 7.23 7.20 1 311 7.10 7.07 400 ISL 6.27 6.24	34.071 26.659 141. 34.075 26.680 140. 34.132 26.837 126.	: .667 1.84 27.1 56.2 .785 1.01 14.6		302 313 403
1 417 6.14 6.11 500 ISL 5.66 5.62 1 519 5.58 5.53	34.146 26.865 123. 34.236 26.997 111. 34.257 27.023 109.	.904 .44 6.3		504
600 ISL 5.22 5.17 700 ISL 4.84 4.79	34.317 27.115 101. 34.374 27.203 93.	1.010 .35 5.0 1.108 .32 4.5		605 706
1 778 4.60 4.54 800 ISL 4.57 4.46 1000 ISL 3.96 3.89	34.404 27.255 69. 34.413 27.270 87. 34.478 27.382 7P.	1.198 .31 4.3 1.364 .50 6.8		807 1009
1 1046 3.86 3.78	34.486 27.400 76.	1.400 .57 7.8 122.6	3.32 44.4 .0	1055
RV NEW HORIZON	FR	ONTS LEG II		STATION 24 2
LATITUDE LONGITUDE DAY/MO/YR 32 09.3 N 120 38.3 W 20/07/85	MESSENGER BOTTOM 0835 GMT	WIND SPEED WAVES WEATHE 340 08 KT 340 03 1	R BAROMETER DRY 1017.6 MB 15.6 C	WET CLOUD ANT TYPE 15.0 C 4/R SC
CAST DEPTH TEMP POT TEMP M DEG C DEG C	SALINITY SIGPA SVA THETA	DYN HT OXYGEN OXY SIO ML/L PCT UM/		
0 ISL 17.20 17.20 1 2 17.20 17.20	33.263 24.135 377. 33.263 24.135 377.	.008 5.70 103.6 2.1	.36 .1 .0	
17 ISL 17.18 1 12 17.17 17.17 20 ISL 16.34 16.34	33.257 24.136 377. 33.256 24.137 377. 33.303 24.366 355.	.045 5.71 103.7 2.0	.37 .1 .0	10 12 02 12 00 20 20
30 ISL 15.12 15.12 1 33 14.73 14.73	33.356 24.680 326. 33.371 24.776 317.	.109 6.06 105.8   .118 6.12 105.9 2.7	.35 .1 .0	30 30 .13 .03 33
1 43 14.06 14.05 50 ISL 13.45 13.44 1 53 13.20 13.19	33.317 24.877 307. 33.295 24.985 297. 33.291 25.031 293.	.171 6.10 102.4 .179 6.09 102.1 3.0	.39 .2 .0	50 01 .37 .13 53
1 63 12.41 12.40 1 74 12.23 12.22 75 ISL 12.19 12.18	33.333 25.253 272. 33.335 25.263 271.			
1 84 11.87 11.86 1 94 11.59 11.57	33.369 25.350 263. 33.442 25.459 253.	5 .264 5.53 90.2 6.6 6 .290 5.15 83.5 9.3		10 .74 .10 #4 18 .19 .09 94
100 ISL 11.37 11.36 1 104 11.25 11.24 1 118 10.74 10.73	33.477 25.525 247. 33.495 25.561 243. 33.579 25.718 220.	7 .315 4.79 77.2 11.5 7 .350 4.49 71.6 15.0		
125 ISL 10.51 10.50 1 134 10.20 10.18 150 ISL 9.75 9.73	33.604 25.777 223. 33.642 25.861 215. 33.769 26.037 199.	.385 4.33 68.2 19.2	1.52 19.2 .0	126 01 .04 .05 135 151
1 159 9.52 9.50 1 185 9.00 8.99	33.845 26.134 190. 33.944 26.295 175.	3 .436 3.05 47.4 28.1	1.85 23.9 .0 2.00 26.2 .0	02 .01 .05 160 01 .01 .04 186
200 ISL 8.65 8.63 1 210 8.43 8.40 250 ISL 7.96 7.93	34.012 26.437 162. 34.074 26.557 151.	! .525 2.62 39.8 37.3 : .588 2.25 33.8	2.13 28.0 .0	252
300 ISL 7.62 7.59 1 310 7.58 7.55 400 ISL 6.67 6.63	34.118 26.641 144. 34.121 26.649 143. 34.209 26.845 125.	.662 1.72 25.7 5 .676 1.61 24.0 48.9	2.52 32.4 .0	302
1 416 6.52 6.48 500 ISL 6.06 6.02	34.224 26.878 127. 34.296 26.994 112.	7 .817 .68 9.9 69.6 5 .916 .39 5.6		)1 419 504
1 517 5.99 5.95 600 ISL 5.59 5.54 700 ISL 5.14 5.08	34.308 27.013 110. 34.352 27.098 103. 34.391 27.183 96.	1.024 .33 4.8	7 3.16 40.1 .0	00 520 605 706
1 774 4.84 4.78 300 ISL 4.74 4.67 1000 ISL 4.04 3.96	34.410 27.233 91. 34.419 27.252 90.	7 1.193 .28 3.9 102.0	3.29 42.9 .0	
	34.470 27.368 79.	1.386 .48 6.5		1009

MACAT RESISTED MACAGES POSSIBILIO SANSSINO MANAGESTA

č	2
	•

	TUDE 1.2 N	LONG 1 TUDE 120 32.1 W	DAY/MO/YR 20/07/85	MFSSENG 1202 G		воттор			AVES	WEATHER 7	BAROM 1017.		DRY 15. * C		4 CL CUD 48	T TYPE
CAST	DEPTH	TEMP Deg c	POT TEMP DEG C	SALINITY	SIGMA THE TA		DYN HT	O YYSEN Mi/i	OXY PCT	5103	P04 U#/L	W03 UM/L	NO2 UM/L	CHL-A UG/L	PMAEO UG/L	PRESS D.BAR
	P 15		16.70	33.356	24.325			5.82	104.8							0
1	1	16.70	16,70	33.356	24.525		-004	5.82	104.8	2.0	. 37	٠2.	.00	.19	.05	. 1
	10 15		16.69	33.36?	24.330			5.84	105,1			_				10
1	11	16.70	16.69	33.363	24,331			5.84	105,1		.37	.?	.00	.55	.25	11
	20 15		16.31	33.325	24.384			5.93	105.9							51)
_	30 15		15.37	33.244	24.539			6.09	106.7			_				50
1	32	15.13	15.13	33.226	24.579			0.15	106.9		.36	.2	.00			32
1	42	13.45	13.44	33,131	24.858			6.37	107.2		. 37	.2	.00	. 24	-04	42
	50 IS		13.03	33.155	24,958			6.30	105.1						.07	50 53
1	53	13.00 12.7:	13.00 12.77	33.172 33.245	24.979			4.27 6.14	104.6		.40 .46	.?	.01			64
,	64 74	11.74	11.73	33.132	25.189			5.93	96.5		.7?	4.4	.76		.01	74
•	75 15		11.61	33.132	25.199			5.87	95.6		• ' '	*.*	• ( )	• • • •		76
1	84	12.45	12.47	33.430	25.281			5.42	19.6		.71	5.3	.18	. 74	.17	84
÷	95	11.91	11.79	33,534	25.490			4.80	78.3		.93	9.7	.09		11	95
	100 15		11.52	33.557	25,559		308	4.67	75.6			7.7	.07		• • •	101
1	105	11.31	11.30	33.571	25.609			4.59	74.1		1.07	11.9	.06	.11	.08	105
÷	119	10.60	10.59	33.654	25.800			4.22	67.1		1.27	15.6	.03		.08	120
	125 15		10.25	33.689	25.886			4.04	63.8			.,	• • • •		• • •	124
1	135	9.67	9.65	33.755	26.039			3.71	57.8		1.5*	20.3	.01	.92	.04	136
	150 15		9.23	33,842	26,175			3.35	51.7				•••	• • • •	•••	151
1	161	9.03	9.02	33.897	26.252			3.16	48.6		1.86	24.5	.01	.00	.03	162
1	186	9.35	۶.33	33,981	26.424		.477	3.05	46.2		1.98	26.5	.00		.03	187
	200 15		8.06	34.005	26.484			2.94	44.3				•			201
1	211	7.90	7.98	34.017	26.520			7.84	47.6	40.0	2.09	28.1	.00			212
	250 IS	L 7.41	7.39	34.065	26.629	144.2	.575	2.28	33.8							252
	300 15	L 6.44	6.95	34.120	26.732	135.1	.645	1.52	22.4							302
1	311	6.71	6.29	34.130	26.749	133.6		1.35	19.8	59.5	2.68	35.2	.01			313
	400 IS		4.49	34.221	26.884			-65	9.5							403
1	416	6.37	6.33	34.235	26.906			.58	8.4		3.00	29.4	.00			419
	500 IS		5.97	34.284	26.992			.39	5.6							504
1	516	5.95	5.90	34.291	27.005			.38	5.5		3.14	40.0	.00			519
	600 IS		5.50	34.331	27.086			.35	4.9							605
	700 IS		5.05	34.373	27,174			.31	4,3							796
1	770	4.00	4.74	34.400	27.230			.28	3.9		3.27	43.0	.00			776
	200 IS		4.62	34.411	27.251		1.193	.29	4.1							207
	1000 IS		3.96	34.476	27.374		1.362	.51	6.9							1009
1	1936	3.94	3.86	34.486	27.392	77.5	1.390	-57	7.8	121.4	3.28	43.7	.00			1045

RV NEW HORIZON FRONTS LEG II STATION 26 1

	ITUDE 40.2 N	LONGITUDE 120 20.0 w	DAY/MO/YR 20/07/85	MESSENG 1525 G		#0110#		FED W		WEATHER 2	BAROM 1018.		DRY 15.0 C 1		ELGUD AM P/R	T TYPE SC
CAS	T DEPTH M	TEMP Deg c	POT TEMP DFG C	SALINITY	516## THE T#		DYN HT	OXYEFN ML/L	OXY PCT	\$103 UM/L	P04 UM/L	NO3 UM/L	NO2 Um/L	CHL-A UG/L		PRESS D.BAR
	n Is	L 16.89	16.89	33.336	24.265	364.8	.000	5.79	104.6							σ
1	1	14.89	16.89	37.338	24.265			5.79	104.6		.37	.2	.00	.13	.04	1
	10 IS		16.88	33.336	24.268			5.79	104.6							17
1	11	16.88	16.87	33.336	74.268			5.79	104.6	3.0	.37	.1	.00	.13	.04	11
	50 IS		16.34	33.369	24.417			5,99	107.2							50
	30 IS		15.34	33.3R3	24.653			6.21	108.8	_						30
1	33	14.07	14.97	33.384	24.739			6.27	109.1	3.4	.43	.6		. 36		33
1	49	12.56	17.56	33.255	25.129			6.14	101.6	4.9	.60	2.5	.15	- 30	.08	49
	50 IS		12.51	33.270	25.150			6.11	101.0							50
. 1	59	12.29	12.28	33.380	75.278			5.89	96.9	7.2	.81	6.0	.27	.23		59 71
1	71	11 - 64	11.43	33.374	25.396			5.53	89.8 87.2	8.9	1.02	*.5	. 24	.20	.04	76
	75 IS		11.48	33.392	25.435			5,39 5,05	81.1	11.9	1.13	12.3			.08	86
- 1	86 96	11.12	11.11 10.61	33.448 33.489	75.54F			4,79	76.1		1.29	15.1	.07	.09		96
,								4.70			1.29	15.1	.05	•06	.07	101
	100 15		10.53	33.505	25.696			4.54	74.6 71.8		1.38	16.5			.05	101
1	107 116	10.41 9.92	10.40 9.91	33.536 33.629	25.747			4.09	64.0		1.57	19.7	.02	.03		117
	125 15		9.66	33,714	26.005			3.74	58.3	21.3	1.37	14.7	.01	.02	.03	126
		9.64	9.62	33.727	26.003			3.69	57.5	23.8	1.65	21.0	.01	.01	.05	127
1	126 147	9.16	9.14	33.862	26.209			3,42	57.7		1.79	23.2	.01	.01	.03	148
	150 IS		9.08	33.875	76.225			3.39	52.2	20.2	1.77	().	.01		.03	151
1	174	8.67	8.60	33.950	26.358			3,21	48.9	33.1	1.92	25.4	.01	-00	.05	175
•	200 15		8.34	33.979	26.421			3.10	46.9	33.1	1.72	٤,,•	.01	•00	,	201
1	204	8.33	8.31	33.981	26.428			3.08	46.6	36.0	2.00	26.5	-01	-00	.02	205
1	230	7,91	7.89	34.013	26,515			7.86	47.9		2.12	28.1	71	•170		231
•	250 IS		7.61	34.012	26.572			2.60	38.8				• • •			252
	300 IS		7.00	34-074	26.690			1.97	22.0							302
1	347	6.58	4.55	34.103	26.774			1.38	20.1	63.0	2.75	36.3	.01			349
	400 15		6.08	34.132	26.857			.09	14.2							403
1	459	5.75	5.69	34.169	26.934			.69	9.8		3.06	40.1	.00			462
	500 15		5.56	34.213	26.986			.52	7.4				•			5.04
1	564	5.46	5.41	34.284	27.055			.33	4.7		3.21	41.5	.00			568
	600 15		5.29	34.312	27.097			.34	4.8	-	-					605
	777 15		4.97	34.376	27.190			. 36	5.0							706
	800 IS		4.55	34.477	27.268	P 9.3	1.181	.38	5.3							807
1	844	4.45	4.39	34.436	27.29	85.7	1.219	.39	5.4	110.2	3.30	43.6	.00			*51
	1000 15		3.92	34.485	27.384			.50	6.9							1009
1	1133	3.67	3.59	34.505	27 . 474		1.448	.64	F.7	126.8	3.25	43.7	.00			1143

	1 1ude 54.7 N	LONGITUDE 120 20.4 W	DAY/MO/YR 21/07/85	MESSENG 0834 G		B0110#		EED W/		WEATHER 2	BAROM!		DPY 14.4 C		MA GUD J: 8/8	T TYPE SC
CAS	T DEPTH	TEMP DEG C	POT TEMP DEG C	SALTHITY	SIGMA THETA		DYN HT	OXYGEN ML/L	OXY PCT	5103 UM/L	P04 U#/L	NO3 U≡/L	No.S	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 15	L 16.89	16.89	33.346	24.271	364.3	.000	5.81	105.0							2
1	1	16.89	16.89	33.346	24.271	364.3	.004	5.81	105.0	2.4	. 38	.1	.00	.16	.03	1
	10 15		16.88	33.345	24.273	364.3	.036	5.81	105.0							10
,	11	16.85	16.85	33,345	24.274		.040	5.81	105.0	2.5	.39	.1	.00	.15	.03	11
	20 15		16.23	33,348	24.426	349.2	.072	6.04	107.8							5.0
	30 IS		15.02	33.350	24.697		.106	6.28	109.3							30
1	32	14.74	14.73	33.351	24.759		.112	6.32	109.4	2.9	.46	.7	.03		.16	32
1	47	12.19	12.18	33.242	25.191	277.8	.156	6.13	100.6	5.1	.77	3.8	.20	.40	.12	47
	50 IS		12.11	33.290	25.240	273.2	.165	6.02	98.6							50
1	58	11.95	11.95	33.376	25.338	264.0	.186	5.70	93.1	7.3	.91	7.7	.37	.35	.11	5 p
1	63	11.58	11,57	33.494	25.500	248.9	.214	5.25	85.7	10.8	1.13	12.0	.08	.20	.10	69
	75 IS		11.46	33.534	25.551	244.1	.230	5.10	82.6							76
1	84	11.20	11.19	33.553	25.616	235.3	.250	4.01	79.3	13.8	1.28	14.5	.03	.10	.07	24
1	94	10.41	10.40	33.524	25.731	227.3	.274	4.63	73.2	17.0	1.43	16.8	.03	.05	.05	94
	100 15	L 10.23	10.21	33.550	25.784	227.4	.288	4.52	71.2							101
1	105	10.14	10.13	33.580	25.822	217.9	.298	4.42	69.5	19.6	1.55	18.7	.02	.03	.05	105
1	114	9.75	9.74	33.651	25.943	207.5	.319	3.96	£1.8	23.3	1.72	21.3	.01	.02	.05	115
1	124	9.46	9.64	33,741	26.029	199.6	.339	3.68	57.3	24.1	1.70	21.2	.02	.01	.94	125
	125 15	L 9.65	7.63	33.745	26.033	100.7	.341	3.67	57.1							126
1	145	9.25	9.23	33.841	26.174	186.1	.380	3.40	52.5	27.9	1.84	23.3	.01	.01	.04	146
	150 IS	L 9.17	9.16	33.856	26.198	184.0	.388	3.37	51.9							151
1	171	8 89	8.97	33.909	26.285	176.1	.426	3.28	50.3	30.8	1.92	24.5	-01	.30	.07	172
	200 18	L #.45	9.46	33.965	26.393	166.3	.476	3.17	48.2							201
1	201	8.46	8.44	33.966	26.396	166.0	.477	3.17	4*-1	34.4	2.03	25.9	.01	.00	-04	202
1	227	2.03	8.01	34.003	26.490		.519	3.02	45.4	39.0	2.14	27.5	.01			22#
	250 IS		7.68	34.022	26.552		.555	2.79	41.7							252
	300 15	7.11	7.08	34,054	26.662	141.8	.628	2.25	33.2							302
1	342	6.74	6.68	34,070	26.779		.687	1.74	25.4	58.4	2.71	34.6	.01			344
	400 IS		6.12	34.116	26.840		.763	1-14	16.4		- •					403
1	451	5.78	5.74	34.166	26.927		.825	.70	10.0	79.0	3.19	40.2	.00			454
	500 IS		5.58	34.227	26.994	112.0	. 81	.47	6.7				•			504
1	554	5.52	5.48	34.294	27.069		940	.32	4.5	£8.9	3.39	41.6	.00			555
	600 15		5.31	34.320	27.107		.989	.32	4.6							605
	700 15		4.94	34.390	27.199		1.086	.33	4.6							706
	800 15		4.55	34.426	27.271		1.177	.34	4.7							807
1	×29	4.50	4.43	34.433	27.289		1.202	.34		110.4	3.48	43.8	.00			835
	1000 15		3.01	34.485	27.386		1,343	.40	6.6		3.40	4 / 4 6				1009
,	1108	3.70	3.62	34.503	27.430		1.425	.63		127.1	3.47	43.9	.00			1118
				501		,		•0.5	7.0		3.41	- / - /	•00			

RV MEM HORIZON FRONTS LEG II STATION 27 2

	TUDE 1.3 N	LONGITUDE 121 11.0 W	DAY/MO/YR 21/07/85	MESSENG 1502 G		40110		SPEI 12 I	ED WA KT 320		WEATHER 2	9 AROM (		BRY 15.0 C		R\8	T TYPE SC
CAST	DEPTH	TEMP DEG C	FOT TE™P DEG C	SALINITY	SIGMA THETA	544	DAN H	T	OXYGEN ML/L	OXY PCT	\$103 UM/L	P04 U4/L	NO 3 U¶/L	NO?	CHL-A UG/L	PHAEO UG/L	PRESS
	0 15		17.25	33.310	24.160	374.8	.00		5.68	103.3							r
1	1	17.25	17.25	33.310	24.160	374.8	.00		5.68	103.3	2.5	.35	. 2	.00	.17	.01	- 1
	10 15		17.24	33.308	24.160	375.1	.03		5.74	104.4							10
1	11	17.24	17.74	33.308	24.160	374.1	.04		5.75	104.6	2.4	.36	. 2	.00	.17	.01	11
_	50 12		16.66	33.31*	24.303	361.6	.07		5.90	106.1			_				50
1	5.5	16.48	16.48	33.320	24.348	357.6	.01		5.94	106.4	2.5	.38	.2	.01	.24	.04	55
	30 150		15.45	33.273	24.543	339.2	.10		6.12	107.5	_		_			_	30
1	33	15.07	15.06	33.254	24.614	337.6	.11		6.18	107.6		.37	.2		.25	.06	33
1	43	14.01	14.00	33.204	24.800	315.1	- 15		6.27	106.8	2.4	. 36	.2	.00	.16	.03	43
	20 12		13.74	33.206	24.856	317.0	.17		6.29	106.6							50
1	54	13.68	13.68	33.213	24.874	308.3			6.30	106.6		.38	.1		.19	.07	54
1	64	13.40	13.39	33.236	24.949	301.4	.21		6.17	103.8	2.7	.38	.1		.25	-11	64
1	75	12.98	12.97	33.239	25.035	293.4	.24		6.10	101.8	3.0	.40	!		.45	.21	75
1	85	12.43	12.42	33.279	25.173	240.5	.27		5.91	97.5		.64	3.3		.33	-11	85
1	96	11.67	11.61	33.277	25.324	266.3	.30		5.59	90.6	5.7	.75	6.0	.04	.19	.15	96
	100 I S		11.47	33.337	25.396	259.5			5.37	P6.9	• •						101
!	106	11.37	11.35	33.420	25.482	251.5	.33		5.10	82.3		.91	9.1		.11	.12	106
1	114	11.02	11.00	33.480	25.592	241.2	.36		4.79	76.7	11.6	1.08	11.9	.03	.08	.09	117
	125 15		10.59	33.554	25.723	224.9	.35		4.46	70.9							176
1	126	10.53	10.51	33.566	25.745	8,455	.38		4.41	70.0		1.32	15.4		.04	.05	127
1	142	9.96	9.94	33.642	25.902	212.2	.41		4.02	63.0	20.8	1.55	19.6	.01	.01	.05	143 151
,	150 15		9.64	33.723	26.015	201.4	.43		3.77	58.7	35 -		22.2				159
i	159	9.35	9.34	33.810	26.133	190.4	.45		3.52 3.30	54.5		1.73					
	184	8.98	8.96	33.895 33.936	26.260	178.7	.49			50.7	29.6	1.86	24.1	.01			185
1	200 ISI 210	L 8.74 8.60	9.72 8.58	33.958	26.329	172.4 162.7	.54		3.18 3.11	48.7	33.6	1.97	25.8	.00			201 211
'	250 IS		8.03	34.025	26.504	156.4	.60		2.62	39.5		1.97	23.7	.00			252
	300 15		7.43	34.085	26.639	144.2	.65		1.97	29.2							302
1	314	7.30	7.27	34.097	26.670	141.3	.70		1.77	26.2	52.5	2.58	33.2	.00			316
'	400 15			34.178	26.834	126.6	-81		.98	14.2	32.3	2.30	33.2	.00			403
1	467	6.14	6.54 6.10	34.228	26.930	119.1	.90		.56	A.1	75.7	3.12	39.2	.00			470
•	500 15		5.89	34.253	26.977	114.0	.93		.50	7.2	,,,,	3.16	,4 . 2	.00			504
	600 IS		5.35	34.318	27.094	103.5			.31	4.5							605
1	619	5.31	5.26	34.329	27.113	101.9			.28	4.0	92.0	3.34	41.8	.00			623

SEEN WARRY CLASSES NEWSONN NEWSONN (CARACTOR)

RV NEW H	RIZON	FRONTS LEG II	STATION	CB 2	

17A1	TUDE 5.5 N	LONGITUDE 121 21.2 w	DAY/MO/YR 21/07/85	MESSENG 1745 G		BOTTOP		SPEED 13 KT			FEATHER 1	BAROM!		DRY 15.6 C 1		€ GUD A* 7/&	1 TYPE 5 C
CAST	DEPTH	TEMP Deg c	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN H		IGEN ./L	OKY PCT	SIO3 UM/L	P04 U#/L	NO3 UM/L	NO2 UM/L	CHL-4 UG/L	PHAED UG/L	PRESS D.BAR
	r- IS	16.24	16.84	33.317	24.261	365.3	.00	0 5.	.81	104.9							0
1	1	16.84	16.84	33.317	24.261	365.2	.00	4 5.	.81	104.9	2.4	.37	.2	.01	. 3?	.01	1
	10 15		16.64	33.329	24.270	364.6	.03		.87	105.9							10
1	11	16.94	16.84	33.33C	24.271	364.6	.04		.87	106.0	2.4	.39	. 2	.01	.33	.05	11
	20 15		16.43	33.371	24.398	352.8	.07		.89	105.4							23
1	5.5	16.34	16.34	33.300	24.426	350.2	.07		49	105.3	2.6	.44	1.6	.03	.36	.06	2.5
	30 15		16.31	33.397	24.445	348.6	.10		88	105.1							*r
1	32	16.31	16.30	33.401	24.450	348.2	.11		88	105.1	2.9	-48	1.4	.04	.30	.06	32
1	42	16.10	16.49	33.373	24.476	346.0	.14		.86	104.3	2.7	.48	1.2	.03	. 33	.07	42
	50 15		14.19	*3.252	24.649	329.7	.17		.16	106.9							50
1	53	14.45	14.44	33.215	24.717	321.3			.26	107.6	2.4	.4?	.4	.01	.31	.0,	53
1	63	13.72	13.71	33.200	24.857	310.1	-21		.23	105.5	2.6	.38	.0	.00	.23	.07	63
1	73	13.30	13.29	31.212	24.952	301.3			.20	104.1	2.6	. 3 9	.0	.90	.19	.10	73
	75 IS		13.27	33.240	24.976	500.0			.14	103.0							76
1	94	13.19	13.17	33.332	25.069	290.5	.2#		89	98.7	3.3	.43	. 6	-09	.??	.14	• 4
1	94	12.59	12.57	33.295	25.156	282.3			.78	95.7	3.6	.49	1.7	.15	.19	.17	04
	100 15		12.43	33.298	25.187	279.6			.67	93.5							101
1	104	12.37	12.36	33.309	25.209	277.5			.59	92.1	4.7	.61	3.5	.13	.19	.16	104
1	114	11.83	11.82	33.399	25.380	261.5	. 36		.25	85.6	7.4	.82	7.4	.06	.10	.09	115
1	124	11.01	10.00	33.430	25.562	244.2			.96	79.4	10.4	1.00	10.6	.03	-76	.08	125
	125 15		10.96	33.443	25.570	243.4	.39		.94	79.1							126
1	140	10.40	10.39	33.583	25.760	223.7	.42		.44	70.2	17.3	1.44	17.5	.01	.01	.03	141
	150 15		10.00	33.661	25.907	211.8	.44		.02	63.1							451
1	15"	9.61	9.79	33.700	25.972	205.7	.46		.80	59.4	23.2	1.67	21.3	.01			156
1	191	F.03	9.01	33.828	26.214	197.9	.51		.17	48.6	30.4	1.92	25.4	.01			187
	560-12		P - 68	33.872	26.285	176.5	.54		.06	46.7							7^1
1	101	r.46	P.63	33.883	26.301	175.1	.55		.05	46.5	33.1	2.00	26.5	.01			208
	250 15		P.03	33.957	26.450	161.5	.62		.77	41.7							252
	400 I 2		7.34	14.011	26.608	147.0	.70		.36	35.0							305
1	109	7.24	7.21	34.043	26.636	144.5	.71		.28	33.7	50.7	2.41	31.9	.00			311
	400 15		6.45	34.149	26.823	127.6	.84		.27	18.4							403
1	461	6.11	6.07	34.207	26.918	119.2	.91		.65	9.4	76.5	3.09	39.4	.00			465
	20, 12		5.92	34.242	26.977	117.9	.96		.56	8.0							504
	VO', 12		5.27	34.320	27.111	101,8	1.07		.33	4.6							6.05
,	617	5.1*	5.13	34.332	27.131	100.0	1.08	8 ,	.29	4.1	97.3	3.34	42.6	.00			621

ONE SEE WALLAND TO THE CONTRACTOR OF THE CONTRAC

RV NEW HOFTON FRONTS LEG 11 STATION 29 2

32 1		121 01.0 W	21/07/85	2205 C	E R M T	FOTTOP	320	SPE 10			WEATHER 2	1016.9		17.8 C		3/8	SC
E 457	DEPIH	DEP C	POT TEMP DEG C	SAL JNJ TY	S I G PA	SVA	PYN I	H T	OXYGEN ML/L	OXY	\$103 UM/L	PO4 UM/L	NO3		CHL-A US/L	PHAEO UG/L	PRESS D.BAR
											• • • • •					• • • •	
	3 151		16.87	33.276	24.223				5.80	104.7							0
1	5	16.87	16.87	33.276	24.223				5.80	104.7	2.7	.34	.1	.00	-14	.02	5
	10 151		16.86	33.276	24.225				5.83	105.3							10
1	12	16.86	16.86	33.276	24.226	360.0			5.84	105.4	2.6	.35	.1	.00	.13	.02	12
	20 15		16.81	33.273	24.235			74	5.85	105.4							20
1	23	16.FD	16.80	33.271	24.236				5.85	105.5	2.7	.35	.1	.00	.13	.02	23
	30 131		15.81	33.269	24.461	347.0			6.06	107.2							30
1	33	15.74	15.33	33.267	24.565			20	6.16	107.9	3.0	.34	_ 1			.03	33
1	43	14.23	14.22	33.200	74.751	319.7		52	6.29	107.7	3.2	.34	.1	.00	.16	.03	43
	50 ISI		13.87	33.218	24.838			75	6.27	106.6							50
1	54	13.73	13.73	33.226	24.874	30°.3		87	6.26	106.1	3.3	.35	.1			.07	54
1	64	13.03	13.02	33.150	24.957			17	6.28	104.8	3.4	.38	.1	.00	.31	.11	64
1	75	12.54	17.53	33,172	25.970			49	6.16	101.8	3.9	-44	:		. 32	.17	75
1	85	12.19	12.18	33.243	25.192	279.7	.27	7 R	5.80	96.6	4.8	.56	2.5	5 .18	.24	.12	25
7	95	12.22	12.21	33,345	25.265	272.0	.30	05	5.59	91.8	6.5	.71	5.1	.18	.20	.11	95
	100 150	L 11,85	11.84	33.377	25.360	263.0	.37	20	5.43	88.5							101
1	106	11.41	11.40	33.411	25.467	252.9	. 3	34	5.23	84.5	10.0	.98	10.2	.04	.11	.08	106
1	115	11.08	11.06	33,511	25.605	240.0	.39	58	4.73	75.9	13.3	1,13	17.8	.02	.07	.11	116
1	125	10.66	10.65				.31	85	4.32	68.7	16.4	1.26	15.0	.02	.17	.13	126
1	141	10.07	10.05	33.723	25.947		. 41	16	3.96	62.2	21.0	1.46	18.3	.01	.03	.06	142
	150 150	9.80	9.79	33.772	26.029	200.1	.4	34	3.78	59.0							151
1	156	9.63	9.61	33.802	26.022		.44	46	3.65	56.8	25.0	1.65	20.8	.01			157
1	182	8.93	9.91	33.902	26.273		.49	94	3,19	48.9	30.5	1,89	24.6	.00			183
	200 15	L 8.64	28.8	33.970	26.372	168.3	. 5 ?	25	2.93	44.7							201
1	207	8.55	8.53	33,994	26.404	165.3		37	2.84	43.2	36.0	2.07	26.9	.00			203
	250 151	7.89	7.87	34.058	26.554	151.6	.60	Ú5	2.35	35.3							252
	300 IS		7.18	34.071	26.667	141_1	.6	78	1,88	27.7							302
1	309	7.10	7.08	34.078	26.682		.69	90	1,81	26.7	55.1	2.57	33.7	.01			310
	400 IS		6.30	34.159	26.851	124.8	.8		1.00	14.5							403
1	462	5.98	5.93	34.213	26.939			86	.59	8.5	78.7	3.13	39.9	.00			465
	500 IS		5.71	34.246	26.993				.52	7.4							504
	600 15		5.22	34.326	27.115				.32	4.6							605
1	618	5.20	5.15	34.339	27.134	99.7	1.0	54	-29	4 - 1	96.5	3.31	42.5	.00			622

RY NEW HORIZON	FRONTS LEG II	STATION	30	2
----------------	---------------	---------	----	---

LATI 32 1	TUDE D.O N	LONGITUDE 120 50.6 W	DAY/MO/YR 22/07/85	MESSENG 0050 G		BOTTOP		SPEED 11 KT			WEATHER 2	BAROME 1016.3		BPY 16.7 C		CLOUD AM 8/8	T TYPE SC
CAST	DEPTH M	TEMP Deg c	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN H		XYGEN ML/L	PCT	\$103 U#/L	PO4 UM/L	NO3 Um/L	NO2 UP/L	CHL-A UG/L	PHAFO UG/L	PRFSS D.BAR
1	0 IS	16.70	16.70 16.70	33.351 33.351	24.321 24.321	359.6 359.5	.00	7	5.91 5.91	106.4	2.7	.39	.0	_0C	.15	.04	0
1	10 ISI 12 20 ISI	16.63	16.65 16.63 16.53	33.342 33.338 33.323	24.326 24.327 24.338	359.3 359.3 358.5	.04	. 3	5.99 5.99 5.94	107.6 107.7 106.5	2.7	.40	.0	.00	.13	.04	10 12 20
1	27 30 ISI 33	16.50 16.34 16.28	16.50 16.33 16.27	33.320 33.319 33.318	24.343 24.380 24.393	358.1 354.8 353.7	.10	38	5.92 5.95 5.96	106.1 106.3 106.4	2.5	.39	.0	.00		.03	22 30 33
i	43 50 IS	14.26 13.61	14.25 13.60	33.276 33.214	24.803 24.890	314.8	.11	51 73	6.26	107.3	2.9	.38	.0	.00	.25	.00	43 50
1	53 63 73	13.46 13.02 12.83	13.45 13.01 12.82	33.197 33.282 33.317	24.906 25.060 25.126	305.1 290.7 284.7	.21	İŤ	6.34 6.06 5.91	106.8 101.2 98.3	2.9 3.7 4.4	.41 .44 .57	.0 1.2 2.8	.00 .07	. 53	.09 .12 .14	53 67 73
1	75 ISI 84 94		12.80 12.71 12.30	33.336 33.422 33.499	25.143 25.228	283.1 275.3	.24	67 71	5.85	97.3 92.0	6.1	.68	4.7	.17	.25	.15	76 84 94
,	100 ISI 104	11.68	11.66 11.34	33.530 33.543	25.368 25.510 25.580	262.2 248.7 242.1	.31	14	5.09 4.82 4.70	#3.9 78.4 75.9		.83 1.06	7.8	.08	.12	.14	101 104
1	113 123 125 ISI	11.22 10.63 10.54	11.21 10.61 10.52	33.575 33.636 33.643	25.629 25.783 25.803	237.7 223.1 221.2	.36	59	4.56 4.25 4.21	73.4 67.6 66.7		1.12	12.7 15.9	.07			114 124 126
1	13P 150 IS	9.04 9.58	9.92 9.57	33.690 33.728	25.942 26.031	208.2	.40	) † 25	3.87	60.6 56.9		1.58	19.9	.02	.02	.05	139 151
1	154 179 200 ISI	9.47 8.92 8.57	9.46 8.81 8.55	33.743 33.988	26.061	197.1	.43 .48	30	3.59 3.01 2.74	55.7 46.1 41.7	31.4	1.72	25.5	.01			155 140 201
1	204 250 ISI 300 ISI		¥.52 7.99 7.47	34.008 34.123 34.168	26.417 26.586 26.697	164.0 148.6 138.7	.59	75	2.70 2.04 1.39	41.1 30.8 20.7	36.8	2.14	27.8	.03			205 252 302
1	304 400 ISI	7.46	7.43 6.78	34.16R 34.244	26.704 26.854	138.2	.67	7 ? 9 8	1.34	19.9 10.6		2.71	34.2	.01			306 403
1	455 500 ISI 600 ISI		6.46 6.14 5.40	34.266 34.284 34.306	26.914 26.969 27.079	119.9 115.0 105.0	.91	18	.56 .49 .34	8.1 7.1 4.8	73.0	3.14	38.7	.01			458 504 605
1	610	5.37	5.32	34.307	27,089	104.1	1.03		.32	4.5	92.5	3.32	42.3	.00			614

RV NEW HORTZON FRONTS LEG IT STATION 31 2

LATI	TUDE	LONGITUDE	DAY/MG/YR	MESSENG	ER	BOTTOM	WIND S	PEED WA	IVES I	JEATHER	BAROME	TER	DRA	MET C	LCUD AM	TTYPE
32 G	5.2 N	120 41.2 W	22/07/85	0330 G	MT		320 1	8 KT 330	03	2	1015.9	MB	15.0 C 1	4.4 C	8/8	sc
CAST	DEPTH	TEMP Deg c	POT TEMP DEG C	SALINITY	SIGMA		DYN HT	OXYGEN	OXY PCT	\$103 UM/L	P04 UM/L	N03 UM/L	NO?	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	-	250 0	DE 8 C		1001			471	,,,,	UNITE	0476	0416	0-76	0472	00.0	D.084
	0 151	16.93	16.93	33.387	24.293	362.1	.000	5.41	105.1							0
1	1	16.93	14.93	33.387	24.293	362.1			105.1	2.5	.41	.1	.00	.15	.03	1
	10 15	16.93	16.93	33.384	24.292	362.6	.036	5.83	105.4							10
1	11	16.93	16.03	33.384	24.292	367.6	.040	5.83	105.4	2.4	.41	.0	.00	.14	.03	11
	20 15	16.55	16.55	33.361	24.362	356.2	.072	5.39	105.8							20
1	5.5	16.39	16.38	33.351	24.393	353.3	.079	5.92	105.9	2.3	.41	.0	.00	.15	.04	5.5
	30 15	14.95	14.95	33.291	24.667	327.4	.107	6.18	107.5							30
1	32	14.63	14.62	33.282	74.729	321.5	.113	6.24	107.7	2.6	.40	.0		.17	.04	32
1	42	14.24	14.23	33.286	24.815		_144	6.24	106.9	2.7	.40	.0	.00	.20	.06	42
	50 IS	13.80	13.79	33.339	24.947	301.2	.169	6.12	103.9							50
1	52	13.70	13.70	33.350	24.976	298.5	.175	6.09	103.2	3.4	.44	.1	.01	. 34	.11	52
1	62	13.31	13.30	33.355	25.060	290.8	.204	6.00	100.9	3.8	.54	1.7	.09	.34	.13	62
1	72	12.71	12.70	33.348	25.173	280.3	.232	5.95	98.8	4.5	.67	3.6	.20	.35	.16	72
	75 I S	L 12.57	12.56	33,348	25.200	277.7	.242	5.88	97.4							76
1	83	12.27	12.26	33,359	25.266	271.6	.263	5.67	93.3	5.7	.77	5.5	21	. 35	.16	83
1	93	11.80	11.79	33.400	25.386	260.3	.289	5.34	87.0	7.6	.93	8.3	.07	.26	.18	93
	100 IS	11.46	11.45	33.449	25.488	25C.8	.308	5.06	81.8							101
1	107	11.34	11.32	33,468	25.525	247.3	.314	4.96	0.08	10.9	1.11	11.6	.06	.17	.11	103
1	112	10.78	13.77	33,551	25,688	231.9	.338	4.60	73.4	14.5	1.31	15.0	.04	.10	.06	113
1	122	10.34	10.32	33.636	25.832	217.4	.361	4.29	67.8	18.7	1.54	18.5	.02	.06	.07	123
	125 IS	10.26	10.24	33.659	25.865	215.3	.366	4.14	65.3							126
1	137	9.92	9.90	33.761	26.002	202.5	.392	3.45	54.1	24.6	1.78	21.7	.02	.06	.07	138
	150 IS		9.55	33.824	26.110	197.4	.417	3.18	49.5							151
1	152	9.51	9.49	33.633	26.126	190.9	.421	3.16	49.1	28.1	1.93	23.7	.01			153
1	177	9.05	9.04				.467	,								178
	200 150		8.63	33.985	26.382				41.2							201
1	20*	8.60	8.58	33.994	26.396	166.0	.512	2.68	40.8	36.5	2.20	27.5	.01			204
	250 15	L 8.04	8.02	34.097	26.562	150.9	.586	2.05	30.8							252
	300 IS	7.60	7.57	34.166	26.681	140.3	.659	1.35	20.1							302
1	301	7.59	7.56	34.167	26.684	140.1	.661	1.33	19.8	54.7	2.80	33.8	.01			303
	400 IS		6.63	34.232	26.864		.791	.68	10.0							403
1	449	6.27	6.23	34.249	26.930	118.0	.851	.53	7.7	75.9	3.23	39.2	.01			452
	500 15	5.97	5.87	34.282	27.002	111.6	.909	.44	6.3							504
		F (D	7 *4		33											

RV NEW HORIZON	FRONTS LEG II	STATION 32 2
----------------	---------------	--------------

1411 32 0	TUBE 1.0 N	LONGITUDE 120 30.9 W	DAY/MO/YR 22/07/85	MESSENG 0622 G		POTTOP		SPEED 15 KT	3 30		HEATHER 2	8 AROME 1016.5		DRY 14.4 C 1		LOUD AM	1 TYPE SC
CAST	DEPTH	TEMP DEG C	POT TEMP DEG C	SA' 'NITY	S I GMA THE TA	SVA	DYN H		YGEN L/L	PCT	\$103 UM/L	P04 U#/L	NO3 UM/L	W02	CHL-A	PMAEO UG/L	PRESS D.BAR
1	ņ	17.06	17,06	33,605	24 . 4 31	349.0	.00	0 9	.83	105.8	2.7	. 34	,1	.03	.18	.06	0
1	16	17.05	17,06	33,606	24.432	349.2	.03	5 5	.82	105.7	2.7	.36	.1	.03	.18	.04	10
	26 15	L 16.64	16.64	33.596	24.523	340.9	.06	9 5	-90	106.2							2.5
1	21	16.56	16.56	33.593	24.539	339.4	.07	3 9	.91	106.3	2.6	.36	. 3	.05	.21	-05	21
	30 15	L 15.05	15.05	33.576	24.833	311.6	.10	12 6	.04	105.4							30
1	31	14.89	14.29	33.531	74.866	302.5			.05	105.2	3.6	.51	1.9	.11	. 31	.07	31
1	41	13.44	13.44	33.506	25.149	291.7	.13		-96	100.6	5.0	.66	4.0	.18	. 32	.97	41
	59 150		12.65	33.545	25.334	264.3	.15		.63	93.6							50
1	52	12.53	12.52	33.555	25.367	261.2	.16		.54	91.7	7.5	. R6	7.4	.27	.32	.JR	52
•	65	11.56	11.55	33.601	25.586	240.5	.15		.78	77.6	12.3	1.14	12.1	.29	. ? #	.11	62
1	73	11.25	11.24	34.614	25.654	2 * 4 . 4	.21		.51	77.7	14.1	1.23	13.9	.25	.19	.11	73
	75 15		11.22	33.615	25.657	234.0			.49	72.3							74
1	8.5	11.96	11.35	33.632	25.702	230.0	.23		.35	69.8	15.5	1.30	15.1	.23	.16	-00	ρz
1	g t	10.14	10.17	*3.710	25.923	209.1	.26		.75	59.0	21.5	1.58	19.8	.05	.ე0	-05	Ç3
	100 IS		9.74	33.717	25.961	204.5	.27		.68	57.7							101
1	104	6.47	0.00	* 5.726	25.974	204.4	.28		.65	57.2		1.61	20.5	.04	.07	.06	104
1	113	9.44	9.64	34.870	26.130	189.8	.30		.03	47.2	27.6	1.85	23.5	.03	.03	-05	114
1	125	4.5/	₹.56	53.901	26.168	186.3	.32	1 7	.91	45.3	29.0	1.89	24.1	.02	.03	-95	124
	125 15		9.53	33,905	26.175	185.7	.32		.91	45.2							124
1	130	9.20	4.70	33.925	26.232	180.5	. 34	8 2	.89	44.7	30.5	1.95	24.9	.02	.02	.04	130
	150 IS		4.47	35.941	26.294	174.9			-91	44.7							1 5 1
1	15 1	9.01	×. + Q	33.945	26.309	173.4	.37		.91	44.6	32.9	1.99	25.9	.02			154
1	179	8.64	8.42	33.979	26.379	167.2	.41		.75	41.9	55.4	2.06	26.7	.02			197
	200 15	£ #.32	P.30	34.038	26.473	159.5	.45	3 2	.48	37.6							201
1	275	P. 25	P.23	34.052	26.496	156.4	.46		41	36.4	41.4	5.22	28.9	.92			509
	250 IS	L 7.7;	7.79	34.123	26.616	145.7	.58		.86	27.9							25.5
	30 + 15		7.45	34.162	26.697	138.8	.59		.35	20.1							302
1	301	7.41	7.43	34.163	26.700	134.5	.60	4 1	.32	19.6	55.4	2.66	33.9	.02			\$ሮ5
	401 15		4.65	44.229	26.857	124.6	.73		.71	10.4							473
1	450	6.53	4.29	34.256	24.928	115.3	.79		.53	7.7	74.9	3.06	39.0	.01			453
	500 ES		5.95	34.290	26.998	112.1	.85		.45	6.5							504
,	59	5 - 41	5.45	34.356	27.124	100.7	.99	5	.30	4.2	92.8	3.25	41.8	.01			€5.≰

Pţ	MI W 1104	12 UN				FRO	NTS LEG I	I						STAT10	N *3	, ,
	TUDE	E ONG I THOSE 123 17,4 W	DAY/MO/YR 22/07/85	MESSENG 1005 G		FOTTOM	WIND SP 310 13	EED WA		WEATHER 2	BAROM 1016.		DRY 14.4 C 1		L JUD AM	T TYPE SC
CATI	DEP1H	TE#F DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	CXY PC T	\$103 U#/L	P04 UM/L	403 U#/L	NO? U™/L	CHL-A UG/L	PHAEO UG/L	PRESS 5.BAR
	u I S	L 17.72	17.72	33.588	24.260	365.3	.000	5.64	103.7							r
1	1	17.72	17.72	33.5PP	24.260	365.3	.004	5.64	103.7	2.6	.24	.1	.00	.11	.02	•
*	10.15		17.72	33.587	24.259	365.7		5.67	104.2	2.0		• 1	.00	• • •	.02	10
1	11	17.72	17.72	33.587	24.259	365.7		5.67	104.3	2.5	.74	.1	.00	.11	.01	11
	50 IS		17.68	33.587	24.268			5.67	104.2	,		• '	.00	• • •	• • •	50
•	21	17.65	17.68	33.587	24.269			5.67	104.2	2.4	.25	. 1	-00	.11	.01	21
	30 15		16.37	33,525	24.530			5.96	106.8		•,	•	•	• • •	•••	30
1	31	16.20	16.20	33.513	24.564	337.3		6.00	107.1	2.5	.24	.1	.00	. 15	.02	31
1	41	14.14	14.13	33.452	24.969			6.32	108.1	2.8	.31	. 2		.45	.08	41
•	50	11.46	13.45	33.479	25.125	284.3		6.12	103.3	4.0	.40	1.5		.80	,14	50
1	67	12.73	12.72	33.510	25.294	268.3	.197	5.57	97.6	6.3	.61	4.9	.12	.67	.23	60
1	70	11.92	11.92	33.554	25.493	250.6	.223	4.92	80.4	10.2	.80	9.5	.21	. 59	.17	70
	75 IS	11.65	11.64	33.571	25.548	244.5	.236	4.69	76.2							74
1	60	11,45	11.42	33.588	75.602	239.5	.247	4.51	73.0	13.0	1.08	12.7	.27	.27	.19	ጸበ
1	<b>9</b> u	10.84	10.83	33.642	25.748	225.7	.270	4.05	64.7	16.4	1.27	15.7	.20	.20	.10	90
1	100	10.27	17.26	33.768	25.046	207.1	.292	3.29	52.0	22.6	1.50	20.7		.10	.11	100
1	109	10.17	10.10	73.789	25.989	203.1	.312	3.22	50.7	23.6	1.64	21.5	.03	.08	,11	110
1	119	9.85	9.83	33.844	26.078	174.9		3.02	47.3	26.2	1.74	25.0		.05	,13	120
	125 IS	L 9.73	9.71	33.868	26.116	191.3	.343	2.96	46.2							126
1	134	9.56	9.54	33.901	26.170	156.3	.360	2.88	44.8	28.7	1.86	24.4		.03	.06	135
1	149	9.31	9.32	33.954	76.248	179.3		7.74	42.4	31.2	1.94	25.6	.02			150
	150 IS		9.31	33.956	26.252	179.9	.389	2.73	42.3							151
1	174	4.84	8.80				.431									175
1	200	8.42	P.40	34.035	26.456			2.44	37.0	39.3	2.12	29.6	.01			201
	250 15		7.87	34.107	26.593			1.89	28.4							252
1	300	7.49	7.47	34.167	26.698			1.29	19.2	55.1	2.61	34.1	.01			305
	400 IS		6.67	34.246	26.870		.753	-64	9.4							403
1	455	6.33	6.29	34.276	26.944	116.8		-44	6.4	76.8	3.02	39.0	.00			458
	500 19		5.99	34.3C2	27.002	111.7		.39	5.5							504
	600 15		5.43	34.348	27.109			.26	3.7	01.7						605
1	412	5.47	5.37	34.353	27.119	101.3	.989	.25	3,5	93.2	3,33	41.8	.00			616

RV NEW HORIZON				FRO	NTS LEG I	I						STATIO	N 34	2
LATITUDE LONGIT 31 50.7 N 120 D9		MESSENGE 1300 GM	R 6	OTTOM	WIND SP 310 13	EED WA	VFS I	FATHER	BAROME 1016.5		DRY 15.6 C 1		LOUD AM	1 TYPE CU
CAST DEPTH TEM 4 DEG		SALINITY	SIGMA THE TA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	\$103 Um/L	PO4 UM/L	NO3 UM/L	H0? UP/L	CHL-A UG/L	PH4F0 U6/L	PRFSS D.BAR
( ISL 18.0 1 1 18.0		33.582 33.582	24.173 24.173	373.7 373.6	.000	5.61	103.E	2.4	.26	.1	.00	.11	.01	1
16 ISL 18.0	4 18.03	33.589 33.590	24.185	372.8 372.7	.037	5.64	104.3	2.3	.25	. 1	.00	-11	.01	10 11
20 ISL 17.2 1 22 17.0	17,23	33.5/1 33.>53	24.358	356.6 352.4	.074 .081	5.82 5.87	106.0	2.2	.27	.1	.00	.14	.02	55
30 15L 16.2 1 32 16.0	9 16.28	33.525 33.518	24.552	33P.4 333.9	109	6.04	108.0	2.2	.27		.00	.17	.01	30 12
1 42 13.7 50 ISL 13.3	1 13.71	33.476 33.478	25.071	289.2 281.1	.146	6.25	106.0	3.4	.36	. 7	.02	74	.11	4.2 50
1 52 13.2	7 13.26	33.478	25.163	280.7	.174	5.97	100.3	4.4	.45	2.6	.06	.40	.14	52
1 74 12.0	12.05	33.55° 33.596	25.320	250.0	.204	5.72 5.01	95.2 F2.1	10.0	-63 -94	9.4	-16 -30	.63	:16	74
75 15L 11.9	11.24	33.599 35.630	25.514 25.666	247.7 233.4	.236	4.9Z 4.32	80.5 69.6	14.4	1.20	14.4	. 33	.19	.12	76 54
1 94 10.2 100 ISL 10.5	7 10.55	33.695 33.729	25.791 25.865	721.8 214.8	.279 .293	3.42	57.9 54.4	18.3	1.45	18.2	.05	.16	.14	101
1 105 10.3 1 114 2.9	2 9.90	33.754 33.833	25.919 26.057	209.7	.303	3.34 3.11	52.9 48.8	22.C 26.G	1.57	20.5 22.9	.02	.10	.10	105
1 124 9.7 125 ISL 9.7		33.859 33.860	26.102	192.7	.342 .343	2.99 2.99	46.7 46.7	26.9	1.79	23.5	.01	.04	.05	125
1 147 9.3 157 ISL 9.1	≥ 9.51	33.889	26.199	183.7 177.1	.372 .390	2.92	45.2	30.1	1.88	25.0	.01	.01	-05	141
1 155 9.0 1 181 H.A	1 9.00	33.941 34.005	26.290	175.3 165.0	.399	2.76	42.4	32.4	1.97	26.3	.00			156 142
200 ISL 3.2 1 207 9.1	5 8.23	34.073 34.097	26.511	154.9	.473	2.26 2.15	14.2 32.4	43.2	2.31	30.7	.00			261 208
250 ISL 7.6 300 ISL 7.2	7.61	34.165 34.182	26.676	140.0	.547	1.62	24.2	45.1		20.1	•••			25? 302
1 384 7.2 400 ISL 0.5	٥٠.٦ ٢	34.180	26.753	137.4 120.9	.625	1.08	16.0	59.5	2.74	35.4	.00			310
1 462 4.0 500 ISL 5.*	9 6.05	34.273	26.973	114.0	.815 .858	.43	6.2	79.7	3.09	40.0	.90			465 504
607 15L 5.4	2 5.37	34.348	27.116 27.132	101.5	.964	.39 .30	4.2	93.8	3.24	41.8	.00			695
RV NEW HORIZON					NTS LEG I							STATIO		•
LATITUDE LONGIT 31 46.5 N 119 59	.1 w 22/07/85	MESSFNGE 1540 GM	T	0110*	WIND SP 310 13	EED WA KT 340	04	JEATHER 2	1016.9	MP 1	14.4 C 1	WET C 3.9 C	LCUD AM	T TYPE SC
LATITUDE LONGII 31 46.5 N 114 59 CAST DEPTH TEW DE6	.1 w 22/07/85 P FOT TEMP C DEG C	1540 GM SALINITY	THETA	NOTTO M	WIND SP 310 13 CYN HT	EED WA KT 340 GYYGEN ML/L	04 0X4 PCT					WET C	LCUD AM	T TYPE SC PRESS D.BAR
LATITUDE LONGIT 31 46.5 N 11V 59  CAST DEPTH IEW DE6  3 ISL 17.6 1 2 17.0	.1 w 22/07/85 F FOT TEMP C DEG C G 17.60 C 17.60	1540 69 SALINITY 33.584 33.594	SIGMA THETA 24.286 24.286	OTTOM SVA 342.8 362.9	WIND SP 310 13 CYN HT	EED WA KT 340 GYYGEN ML/L 5.70 5.70	04 0XY PCT 104.6 104.6	2 \$103	1016.9 P04	MP 1	14.4 C 1 NOZ	WET C 3.9 C	LCUD AM 8/9	T TYPE SC PRESS D. BAR
LATITUDE LONGIT 31 46.5 N 11V 59  CAST DEPTH TEW DE6  3 ISL 17.6 1 2 17.0 1 15 17.5 1 12 17.5	22/07/85 F FOT TEMP C DEG C 0 17.60 T 17.59 F 17.59	1540 69 SALINITY 33.584 33.580 33.580	SIGMA THETA 24.286 24.286 24.285 24.285	0110M Sva 362.8 362.8 363.2 363.2	UIND SP 310 13 CYN HT .000 .007 .036	EED WA KT 340 GYYGEN ML/L 5.70 5.70 5.74	04 0XY PCT 104.6 105.2 105.3	2 \$103 UM/L	1016.9 P04 UM/L	NO3 UM/L	14.4 C 1 NOZ U#/L	WET C 3.9 C CHL-A UG/L	LCUD AM 8/9 PMAED UG/L	T TYPE SC PRESS D.BAR 0 2 10
LATITUDE LONGIT 31 46.5 N 11V 59  CAST DEPTH TEMPLE 17.6 1 2 17.6 12 17.5 1 12 17.5 20 15L 17.5 20 15L 17.5 1 23 17.5 1 23 17.5	22/07/85 F FOT TEMP C DEG C 17.60 17.60 17.59 17.59 17.59 17.57	1540 GM SALINITY 33.584 33.580 33.580 33.580 33.580 33.580	SIGMA THETA 24.286 24.286 24.285 24.285 24.291 24.293	542.8 362.9 363.2 363.2 363.2 363.0	WIND SP 310 13 CYN HT .000 .007 .036 .043 .043	EED WA KT 340 GYYGEN ML/L 5.70 5.74 5.74 5.74 5.73	04 0XY PCT 104.6 105.2 105.3 105.1 105.0	2 \$103 UM/L 2.6	1016.9 P04 UM/L	NO3 UM/L	14.4 C 1 NOZ U4/L	WET C 3.9 C CHL-A US/L	PHAEO UG/L	7 TYPE SC PRESS D.BAR 0 2 10 12 20 23
LATITUDE LONGIT 31 46.5 N 11V 59  CAST DEPTH IEW DEC 17.6 1 2 17.6 1 12 17.5 20 15L 17.5 20 15L 17.5 30 15L 17.5 30 15L 17.5 30 15L 17.6 3	1 w 22/07/85 C TT TEMP C DEG C G 17.60 C 17.60 C 17.59 C 17.59 C 17.59 C 17.59 C 17.56 C 17.66 C 16.68	1540 GM SALINITY 33.584 33.580 33.580 33.580 33.580 33.581 33.571 33.571	SIGMA THETA 24.286 24.286 24.285 24.286 24.286 24.293 24.404 24.483	542.8 362.9 363.2 363.2 443.0 363.0 363.0 363.0	WIND SP 310 13 CYN HT .000 .007 .036 .043 .073 .083 .109	EED WA KT 340 GYYGEN ML/L 5.70 5.74 5.74 5.73 5.73 5.73 6.06	04 9XY PCT 104.6 105.2 105.3 105.1 105.0 107.9 109.2	2 \$103 UM/L 2.6 2.5 2.4	1016.9 P64 UM/L .27 .27 .26	NO3 UM/L .1 .0	.00 .00	WET C 3.9 C CHL-A US/L .15 .13	LCUD AM #/9 PMAEO UG/L .02	T TYPE SC PRESS D.BAR 0 2 10 12 20 23 30 33
LATITUDE LONGII 31 46.5 N 117 59  CAST DEPTH IEW DE6  0 ISL 17.6 1 2 17.6 1 12 17.5 1 12 17.5 20 ISL 17.5 1 23 17.5 30 ISL 17.0 1 37 16.6 1 43 14.2 50 ISL ISL 13.2	22/07/A5  C FOT TEMP DEG C  17.60 17.59 17.59 17.56 17.56 17.66 16.68 14.20 17.29	1540 GM SALINITY 33.584 33.580 33.580 33.580 33.580 33.581 33.571 33.571 33.573 33.475	SIGMA THETA 24.286 24.286 24.286 24.286 24.291 24.291 24.293 24.404 24.483 24.969 25.244	542.2 362.9 363.2 363.2 363.0 363.0 363.0 372.0 272.9	UIND SP 310 13 CYN HT .000 .007 .036 .043 .073 .083 .109 .119 .151	STO WARTS OF THE PROPERTY OF T	04 0XY PCT 104.6 105.2 105.3 105.0 107.9 109.2 110.0	2 \$103 UM/L 2.6 2.5 2.4 2.5 2.9	1016.9 P04 UM/L .27 .27 .26 .27 .30	NO3 UM/L .1 .0	.00 .00 .00	WET C 3.9 C CHL-A US/L .15	.02 .01 .03	T TYPE SC PRESS D.BAR 0 2 10 12 20 23 35 45 0
LATITUDE LONGII 31 46.5 N 119 59  CAST DEPTH TEM DEG  3 ISL 17.6 1 2 17.6 1 12 17.5 1 12 17.5 1 23 17.5 1 23 17.5 1 33 15.1 1 33 16.6 1 33 16.6	11 W 22/07/A5 PC 17.60 17.60 17.50 17.59 17.59 17.57 17.56 17.66 16.68 14.20 12.99 12.55	33.584 33.584 33.580 33.580 33.580 33.581 33.571 33.571 33.573 33.475 33.514 33.514	SIGMA THETA 24.286 24.285 24.285 24.286 24.291 24.291 24.404 24.483 24.463 24.463 24.463 24.364	5VA 362.8 362.9 363.2 363.2 443.0 352.6 345.1 299.0 272.9 262.5 250.6	UIND SP 310 13 CYN HT .000 .007 .036 .043 .073 .083 .109 .119	STO STANDS	04 0XY PCT 104.6 105.2 105.3 105.1 105.0 107.2 110.9	2 \$103 UM/L 2.6 2.5 2.4 2.5 2.9	1016.9 P64 UM/L .27 .27 .26	NO3 UM/L .1 .0 .0 .0	.00 .00 .00 .00 .00	MET C 3.9 C CML~A US/L .15 .13 .14 .19	###E0 U6/L .02 .01	T TYPE SC PRESS D.BAR 0 10 12 20 23 30 33
LATITUDE LONGIT 31 46.5 N 11V 59  CAST DEPTH   IEW   DEC	11 W 22/07/A5 PC FOT TEMP DEG C 17.60 17.50 17.59 7 17.59 7 17.56 17.56 16.68 14.20 12.99 12.95 12.00 11.48	33.584 33.584 33.580 33.580 33.580 33.581 33.581 33.571 33.571 33.575 33.575 33.575 33.575 33.575	SIGMA THETA 24.286 24.285 24.285 24.285 24.291 24.293 24.404 24.483 24.969 25.244 25.354 25.613	362.8 362.9 363.2 363.2 363.0 363.0 352.6 352.6 272.9 262.5 250.6 272.9	WIND SP 310 13 CVN HT .000 .007 .045 .045 .049 .119 .151 .171 .181 .207 .234	STO STATE OF THE PROPERTY OF T	04 0XY PCT 104.6 105.2 105.3 107.9 109.2 110.9 110.0 93.1 81.9 72.7	2 \$103 UM/L 2.6 2.5 2.4 2.5 2.9 6.7 10.3 13.3	1016.9 P04 UM/L .27 .27 .26 .27 .30 .67 .96	.1 .0 .0 .0 .0 .0 .0 .0	.00 .00 .00 .00 .00 .00	MET C 3.9 C CML-A US/L .15 .13 .14 .19	UG/L .02 .01 .03 .29 .19 .18	1 TYPE SC PRESS D.RAR 0 2 10 12 20 23 30 43 50 54 64 64 75
LATITUDE LONGIT 31 46.5 N 11V 59  CAST DEPTH IEW DEC 17.6 1 2 17.6 1 12 17.5 1 12 17.5 20 151 17.6 1 23 17.5 30 151 17.6 1 43 14.2 50 151 13.0 1 54 12.0 1 54 12.0 1 54 12.0 1 54 12.0 1 75 11.4 1 85 10.8	11 W 22/07/A5 PC FOT TEMP DEG C 17.60 17.50 17.59 7 17.57 7 17.56 16.68 16.68 17.50 12.00 12.00 12.00 11.48 10.82	33.584 33.584 33.580 33.580 33.580 33.581 33.591 33.591 33.591 33.593 33.594 33.573 33.694 33.669	SIGMA THETA 24.286 24.286 24.285 24.291 24.293 24.404 24.493 24.406 25.354 25.354 25.354 25.613 25.779	SVA 362.9 363.9 363.0 363.0 363.0 363.0 352.6 345.1 299.0 272.9 262.5 272.9 262.5 273.3 273.5	.000 .007 .036 .043 .073 .083 .109 .119 .151 .171 .207 .227 .227 .278	EED WAR KT 340 OYVEEN ML/L 5.70 5.70 5.74 5.73 5.94 6.06 4.47 5.98 2.09 4.49 4.00 3.78	04 9XY PCT 104.6 105.2 105.3 105.0 107.9 110.9 110.9 110.9 72.7 63.9 59.1	2 \$103 UM/L 2.6 2.5 2.4 2.5 2.9 6.7	1016.9 P04 UM/L .27 .27 .26 .27 .30 .67 .96	NO3 UM/L .1 .0 .0 .0	.00 .00 .00 .00 .00	MET C 3.9 C CHL~A U6/L .15 .13 .14 .19	CUUD AM 8/9 CMAEO UG/L .02 .01 .03	1 TYPE SC PRESS 0.RAR 0 2 10 120 23 30 33 43 64 64 675 PSS
LATITUDE LONGIT 31 46.5 N 11V 59  CAST DEPTH IEW DEG DEG 17.6 1.7 ST. 17.6 1.7 ST. 17.5 1.7 ST. 17.5 30 ISL 17.6 30 ISL 17.6 1.7 ST. 18.7	11 W 22/07/85 PC FOT TEMP DEG C 17.60 17.50 17.59 7 17.57 7 17.56 16.68 16.68 12.55 11.48 11.48 11.48 11.48 11.48 11.48 11.48 11.48 11.48 11.48	33.584 13.584 13.580 13.580 13.580 13.580 13.581 13.571 13.571 13.571 13.571 13.571 13.574	SIGMA THETA 24.286 24.286 24.285 24.291 24.293 24.403 24.403 24.403 25.354 25.354 25.354 25.354 25.354 25.354 25.354	0110M SVA 362.9 363.9 363.0 363.0 363.0 352.6 345.1 299.0 272.9 262.5 257.6 27.9 217.2 217.5 217.2	WIND SP 310 13 CVN HT .000 .007 .036 .043 .073 .083 .109 .119 .151 .171 .181 .207 .234 .247 .278 .290	STATE OF THE PROPERTY OF THE P	04 0XY PCT 104.6 105.2 105.3 105.3 107.9 110.9 110.9 110.9 72.7 63.9 59.9 57.3 54.8	2 S103 UM/L 2.6 2.5 2.4 2.5 2.9 6.7 10.3 13.3 18.0 20.3	1016.9 P04 UM/L .27 .27 .26 .27 .30 .67 .96 1.15 1.40 1.50	.1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.00 .00 .00 .00 .00 .00 .00 .00	MET C 3.9 C CML~A U5/L -15 -13 -14 -19 -66 -45 -30 -15	200 AM 8/9  MAEO UG/L  .02 .01 .03 .23 .18 .19 .10	T TYPE SC PRESS D.RAR 0 12 20 30 33 43 50 54 64 75 PS 101 106
LATITUDE LONGII 31 46.5 N 117 59  CAST DEPTH IE-	1.1 w 22/07/A5  P. C FOT TEMP DEG C  17.60 17.50 17.59 7 17.57 7 17.56 16.68 16.68 14.20 12.90 12.55 11.48	33.584 33.584 33.580 33.580 33.580 33.581 33.581 33.581 33.581 33.581 33.581 33.581 33.669 33.720 33.720 33.720 33.747 33.780 33.780	SIGMA THETA 24.286 24.286 24.285 24.285 24.293 24.404 24.293 24.405 24.405 24.405 24.405 25.354 25.354 25.481 25.613 25.613 25.613 25.613 26.023 26.023 26.033 26.033 26.033	362.9 362.9 363.2 363.2 363.2 463.0 352.6 352.6 352.6 272.9 262.5 272.9 262.5 272.9 262.5 271.5 211.5 211.5	.000 .007 .036 .043 .033 .093 .119 .151 .171 .181 .207 .234 .257 .278 .290 .321 .321 .321	SEED WART 340 OFFICE OF STATE	04 0XY PCT 104.6 105.3 105.3 107.9 100.0 107.9 100.0 72.7 63.9 54.8 54.8 54.8	2 S103 UM/L 2.6 2.5 2.4 2.5 2.9 10.3 13.3 14.0 20.3 23.6 27.9	1016.9 P04 UM/L .27 .27 .26 .27 .30 .67 .96 1.15 1.40 1.50	.0 .0 .0 .0 .0 .0 .1 .2 .5 .16 .9 .18 .9 .22 .4 .27 .6	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	MET C 3.9 C CML-A US/L .15 .13 .14 .19 .66 .45 .30 .15	.02 .01 .01 .03 .28 .19 .10 .10 .10 .10 .10 .10 .10 .10 .10 .10	T TYPE SC PRESS D.BAR 0 2 2 10 12 2 20 33 34 35 50 54 64 64 75 95 101 106 116 126
LATITUDE LONGII 31 46.5 N 117 59  CAST DEPTH IEW DEG  0 ISL 17.6 1 2 17.6 1 15L 17.5 20 ISL 17.5 1 23 17.5 30 ISL 17.6 1 43 14.2 50 ISL 17.5 1 6.6 1 54 12.5 1 54 12.5 1 64 12.0 1 75 11.4 1 95 10.4 1 95 10.4 1 106 ISL 10.2 1 106 10.1 1 115 9.8 1 125 9.5 1 141 9.2 1 151 ISL 19.2	22/07/85  C FOT TEMP DEG C 17.60 17.50 17.50 17.57 17.56 16.68 16.68 14.20 12.55 11.48 11.	1540 GM SALINITY 33.584 33.580 33.580 33.581 33.571 33.571 33.571 33.591 33.475 33.475 33.475 33.476 33.720 33.720 33.720 33.720 33.720 33.720	SIGMA THETA 24.286 24.285 24.285 24.293 24.404 24.429 24.406 25.244 25.381 25.613 25.771 25.859 26.013 26.122 26.214 26.263	342.8 362.9 363.2 363.2 363.2 363.2 363.0 352.6 352.6 322.3 272.9 262.5 272.9 262.5 271.2 211.2 211.2 211.2 211.2 211.2 211.2	UIND SP 310 13 OVN HT .000 .007 .036 .043 .023 .109 .119 .171 .181 .207 .237 .237 .239 .301 .321 .341 .370 .381	SEED WART 340 GREEN ME/L 5.70 5.74 5.73 5.94 6.06 6.47 5.62 5.62 6.46 9.378 3.63 3.21 7.2.86 2.77	04 0XY PCT 104.6 105.3 105.3 107.9 100.9 10	2 ST03 UM/L 2.6 2.5 2.4 2.5 2.7 10.3 13.3 13.3 14.0 20.3 23.6 27.9 30.8	1016.9 P04 UM/L .27 .26 .27 .30 .67 .96 1.15 1.40 1.50	.1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	MET C 3.9 C CML-A US/L -15 -13 -14 -19 -66 -45 -30 -19 -15	LCUO AM 8/9  PMAEO UG/L  .02 .01 .03 .29 .19 .10 .10 .10	1 TYPE SC D.BAR 0 2 2 10 12 2 20 33 3 43 50 54 64 75 95 101 106 116 116 116 116 116 116 116 116
LATITUDE LONGII 31 46.5 N 117 59  CAST DEPTH IEW DEG  0 ISL 17.6 1 2 17.6 1 15L 17.5 20 ISL 17.5 1 23 17.5 30 ISL 17.5 1 43 14.2 50 ISL 17.5 1 54 12.5 1 64 12.6 1 75 11.4 1 95 10.4 1 106 ISL 10.2	11 W 22/07/A5  P C FOT TEMP DEG C 17.60 17.50 17.50 17.57 17.56 16.68 16.68 14.20 12.55 11.48 11.48 11.48 11.48 11.48 11.48 11.48 11.48 11.48 11.48 11.89 11.48 11.89 11.48 11.89 11.48 11.89 11.48 11.89 11.48 11.89 11.48 11.89 11.48 11.89 11.48 11.89 11.89 11.48 11.89 11.48 11.89 11.48 11.89 11.48 11.89 11	33.584 33.584 33.580 33.580 33.580 33.581 33.571 33.571 33.571 33.514 33.544 33.544 33.543 33.696 33.720 33.780 33.790 34.700 34.700 34.700 35.700	SIGMA THETA 24.286 24.286 24.286 24.291 24.291 24.404 24.463 24.463 24.969 25.264 25.354 25.361 25.613 25.613 25.909 26.122 26.214 26.23 26.23 26.392	362.8 362.9 363.2 363.2 363.2 363.0 363.0 373.6 272.9 262.5 272.9 262.5 271.5 211.5 211.5 211.5 211.5 211.5 211.5 211.5 211.5	UIND SP 310 13 CVN HT .000 .007 .036 .043 .043 .043 .109 .119 .151 .171 .181 .207 .238 .257 .278 .290 .301 .321 .341 .370 .386 .399 .441	GEED WART 340 GREEN ME/L 5.70 5.74 5.74 5.74 5.73 3.94 6.06 6.47 8.60 6.47 8.60 3.78 3.63 8.20 2.86 8.20 2.86 7.20 2.86 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20	04 PCT 104.6 105.2 105.3 105.3 105.3 107.2 109.2 110.9 100.0 93.3 107.7 109.0 100.0	2 S103 UM/L 2.6 2.5 2.4 2.5 2.9 10.3 13.3 14.0 20.3 23.6 27.9	1016.9 P04 UM/L .27 .27 .26 .27 .30 .67 .96 1.15 1.40 1.50	.0 .0 .0 .0 .0 .0 .1 .2 .5 .16 .9 .18 .9 .22 .4 .27 .6	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	MET C 3.9 C CML-A US/L .15 .13 .14 .19 .66 .45 .30 .15	.02 .01 .01 .03 .28 .19 .10 .10 .10 .10 .10 .10 .10 .10 .10 .10	T TYPE SC PRESS D.BAR 0 2 2 10 12 2 2 3 3 3 3 4 3 5 0 6 4 7 5 9 5 10 1 10 6 11 6 11 6 11 6 11 6 11 1 1 1
LATITUDE LONGIT 31 46.5 N 119 59  CAST DEPTH TEM DEG  3 ISL 17.6 1 2 17.5 1 12 17.5 1 12 17.5 1 12 17.5 1 13 17.5 1 14 17.5 1 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 10 15 17.5 1 15 17.5 1 15 17.5 1 15 17.5 1 15 17.5 1 15 17.5 1 17.7 1 18 2 8.6 200 ISL 17.7 25 1 18 7.9 200 ISL 17.7	11 W 22/07/85  17.60 17.60 17.59 17.59 17.59 17.56 16.68 16.68 17.50 17.	33.584 33.584 33.580 33.580 33.580 33.581 33.571 33.571 33.571 33.574 33.574 33.574 33.574 33.574 33.780 34.780	\$16#A THETA 24.286 24.285 24.286 24.293 24.404 24.403 24.403 24.405 25.264 25.354 25.468 25.354 25.613 25.757 25.959 26.122 26.214 26.203 26.392 26.392 26.458 26.458 26.472 26.587	362.8 362.8 362.2 363.2 363.2 363.2 363.0 363.6 365.1 209.0 277.9 262.5 250.6 277.9 262.5 210.5 210.5 210.8	WIND SP 310 13 CYN HT .000 .007 .036 .045 .073 .083 .109 .151 .171 .181 .207 .257 .279 .301 .321 .370 .386 .399 .447 .470	SEED WART 340  OYNGEN HL/L  5.70 5.70 5.74 5.74 5.73 5.73 5.73 5.73 5.00 6.06 6.07 5.08 5.00 3.76 3.63 3.40 7.10 2.57 2.77 2.55 2.77 2.55 2.77 2.55 2.77 2.55 2.77 2.55 2.77 2.55 2.77 2.55 2.36	0XY PCT 104.6 105.2 1105.3 105.1 107.9 1100.9 100.9 10	2 SIO3 UM/L 2.6 2.5 2.4 2.5 2.9 6.7 10.3 18.0 20.3 23.6 27.0 833.5	1016.9 P04 UM/L .27 .26 .27 .30 .67 .96 1.15 1.40 1.50 1.63 1.73 1.83 1.93	.1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.00 .00 .00 .00 .00 .17 .29 .33 .06 .01 .01	MET C 3.9 C CML-A US/L .15 .13 .14 .19 .66 .45 .30 .15	.02 .01 .01 .03 .28 .19 .10 .10 .10 .10 .10 .10 .10 .10 .10 .10	1 TYPE SC
LATITUDE LONGII 31 46.5 N 119 59  CAST DEPTH DEE  0 1 SL 17.6 1 2 17.6 1 12 17.5 1 12 17.5 1 12 17.5 1 13 17.6 1 13 17.6 1 14 17.5 1 15 17.5 1 16 17.6 1 17.6 1 18 17.6 1 18 18.7 1 18 18.7 1 18 18.7 1 18 18 9.8 1 18 18 9.8 1 18 18 9.8 1 18 9.8 200 18 9.8 1 18 9.8 200 18 9.4 200 18 9.4 200 18 9.4 200 18 9.4	11 W 22/07/85  P C FOT TEMP DEG C  17.60 17.50 17.59 17.57 17.56 16.68 16.68 12.55 11.48 12.99 11.48 1	33.584 33.584 33.580 33.580 33.580 33.581 33.571 33.571 33.571 33.571 33.571 33.669 33.669 33.720 33.720 33.780 34.780	\$16#A THETA 24.286 24.285 24.286 24.293 24.404 24.403 24.403 24.403 24.403 24.403 25.354 26.352 26.3	362.2 362.2 363.2 363.2 363.2 363.0 363.0 365.1 299.0 277.9 262.5 250.6 277.9 262.5 210.5 210.5 210.8	WIND SP 310 13 CYN HT .000 .007 .036 .043 .073 .109 .119 .151 .171 .181 .207 .237 .290 .301 .321 .370 .386 .399 .447 .470 .481 .548 .639	SEED WART 340 OYVEEN HL/L 5.70 5.70 5.74 5.74 5.74 5.73 5.73 5.73 5.45 6.46 6.46 7.5.98 5.00 4.00 3.63 3.48 6.3	04 0XY PC 1 104.6 105.3 105.1 107.9 110.9 1	2 SIO3 UM/L 2.6 2.5 2.4 2.5 2.9 6.7 10.3 18.0 20.3 23.6 27.6 27.0 30.8	1016.9 P04 UM/L .27 .27 .26 .27 .30 .67 .915 1.40 1.50 1.63 1.73 1.83 1.83 1.83 1.93	.1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	.00 .00 .00 .00 .00 .17 .29 .39 .13 .00 .01 .01	MET C 3.9 C CML-A US/L .15 .13 .14 .19 .66 .45 .30 .15	.02 .01 .01 .03 .28 .19 .10 .10 .10 .10 .10 .10 .10 .10 .10 .10	1 TYPE SC
LATITUDE LONGII 31 46.5 N 119 59  CAST DEPTH DEE  0 1 SL 17.6 1 2 17.5 1 12 17.5 1 12 17.5 1 13 17.5 1 13 17.5 1 14 17.5 1 15 17.5 1 16 17.5 1 17.6 1 17.6 1 18.7 1 18.7 1 18.7 1 18.7 1 18.7 1 18.7 1 18.7 1 18.7 1 18.7 200 1SL 7.9 300 1SL 7.5 1 187 400 1SL 6.6	11 W 22/07/85  P C FOT TEMP DEG C  17.60 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.50 17.66 16.68 14.20 12.90 12.55 10.44 10.20 12.90 11.48 11.48 11.48 10.20 10.00 1	33.584 33.584 33.580 33.580 33.580 33.581 33.571 33.571 33.571 33.573 33.675 33.675 33.676 33.696 33.720 33.747 34.054	SIGMA THETA 24.284 24.286 24.293 24.404 24.403 24.403 24.405 24.405 24.405 24.405 26.405 25.354 25.354 25.354 25.4613 25.771 25.959 26.122 26.214 26.303 26.452 26.	362.8 362.2 363.2 363.2 363.2 363.0 363.0 365.1 299.0 272.9 262.5 250.6 27.5 210.5 2	WIND SP 310 13 CYN HT .000 .007 .036 .045 .109 .1151 .171 .234 .257 .277 .278 .290 .301 .321 .370 .382 .399 .4470 .470 .481 .548 .620 .631 .752 .623	STATE OF THE PROPERTY OF THE P	04 0XY PC 1 104.66 105.23 105.10 107.9 1107.9 1109.9	2 SI03 UM/L 2.6 2.5 2.4 2.5 2.9 6.7 10.3 13.3 13.3 13.3 13.3 13.6 27.9 30.8 33.6 37.7	PO4 UM/L .27 .27 .26 .27 .30 .67 .96 1.40 1.50 1.63 1.73 1.73 1.73 2.09 2.20	.1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .2 .4 .4 .7 .3 .1 .1 .2 .4 .2 .1 .2 .4 .2 .3 .3 .2 .3 .3 .2 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	MET C 3.9 C CML-A US/L .15 .13 .14 .19 .66 .45 .30 .15	.02 .01 .01 .03 .28 .19 .10 .10 .10 .10 .10 .10 .10 .10 .10 .10	1 TYPE SC
LATITUDE LONGIT 31 46.5 N 11 Y 59  CAST DEPTH TEM DE6  0 ISL 17.6 1 2 17.5 1 12 17.5 20 ISL 17.5 1 23 17.5 20 ISL 17.6 1 37 16.6 1 1 37 16.6 1 1 54 12.5 1 54 12.5 1 64 12.0 1 75 11.4 1 75 11.4 1 75 11.4 1 75 11.4 1 15 10.2 1 100 ISL 10.2 1 100 ISL 10.2 1 100 ISL 10.2 1 101 115 10.2 1 102 103 104 105 105 115 115 115 115 115 115 115 115	11 W 22/07/85  P C FOT TEMP DEG C  17.60 17.50 17.50 17.57 17.56 16.68 16.68 14.20 12.90 12.55 10.14 11.48 1	33.584 33.584 33.580 33.580 33.580 33.581 33.571 33.571 33.581 33.571 33.581 33.584 33.584 33.584 33.584 33.584 33.787 33.694 33.747 33.747 33.747 33.747 33.895 33.957 34.054 34.112 34.1156 34.1161 34.161 34.161	SIGMA THETA 24.286 24.286 24.285 24.285 24.291 24.404 25.324 25.461 25.264 25.364 25.613 25.613 25.613 25.613 25.613 25.613 25.613 25.613 26.71	362.8 362.9 363.9 363.0 363.0 363.0 363.1 299.0 262.5 272.9 262.5 271.5 211.5 291.0 198.5 217.8 177.8 177.8 177.8 174.3 146.1 140.1 133.9	UIND SP 310 13 CVN HT .000 .007 .036 .043 .773 .109 .119 .151 .171 .181 .171 .181 .207 .218 .207 .218 .218 .218 .218 .218 .218 .218 .218	GYYGEN ML/L  GYYGEN ML/L  5.70  5.74  5.74  5.73  5.73  5.73  5.06  6.47  5.60  4.400  3.78  3.48  3.10  2.87  2.77  2.71  2.77  2.71  2.77  2.71  2.77  2.71  3.48	04 0XY PCT 104.66 105.2 1105.1 105.1 107.9 1100.9 110	2 SI03 UM/L 2.6 2.5 2.4 2.5 2.9 6.7 10.3 13.3 13.3 13.3 13.6 27.9 30.8 33.6 37.7	P04 UM/L .27 .27 .26 .27 .30 .67 .96 1.40 1.50 1.63 1.73 1.83 1.73 2.09 2.20 2.63	.1 .0 .0 .0 .0 .0 .0 .0 .0 .1 .1 .2 .5 .1 .1 .2 .2 .4 .2 .3 .3 .8 .2 .3 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8 .8	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	MET C 3.9 C CML-A US/L .15 .13 .14 .19 .66 .45 .30 .15	.02 .01 .01 .03 .28 .19 .10 .10 .10 .10 .10 .10 .10 .10 .10 .10	1 TYPE SC D.RAR 0 2 2 100 120 23 30 33 43 45 100 1106 1166 1166 1166 1167 20 8 2 30 2 310 310 40 1

				_
DV NEW HADIZAN	FRONTS LEG 11	STATION	36	?

LATE 31 3	TUDE 5.2 N	LONGITUDE 119 33,8 W	DAY/MO/YR 22/07/85	MESSENG 1934 G		OTTOM	WIND 320	\$PE			LEATHER 2	8 A R OM E 1016.5		DRY 6.7 C 1		LCUD AM 5/H	1 17PE SC
CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN	HT	OXYGEN ML/L	PCT	\$103 U#/L	P04 UM/L	NO3 Um/L	402 1447£	CHL-A UG/L	PHAE? UG/L	PRESS 5.848
	n 150	19.09	10.09	33.691	24.000	390.1	.0	000	5.47	103.3							0
1	?	19.69	19.09	33.691	24.000	390.1	.0	108	5.47	103.3	2.4	.25	.2	.00	-16	.01	?
	10 15	19.0*	19.08	33.690	24.002	390.2		959	5.48	103.4							1.7
1	12	19.08	19.07	33.690	24.003	390.2		147	5.48	103.5	2.4	.24	. 2	-00	.16	.02	12
	20 150	16.93	16.93	33.645	24.493	343.8		176	6.07	109.9							50
1	2.4	16.00	16.00	33.637	24.701	324.0		186	6.28	111.7	2.9	.24	. ?	.00	.26	.01	23
	30 15	L 14.55	14.55	33.616	25.004	295.4	.1	36	6.29	108.7							30
•	3.5	14.06	14.05	33.607	25.100	286.2	.1	16	6.30	107.7	4.6	.43	1.6	.05	.95	.07	13
1	4 -	12.66	12.65	33.566	25.351	262.6	.1	44	5.65	93.8	7.5	.69	5.7	.14	1.24	.25	43
	50 IS	L 11.73	11.73	33.596	25.550	243.7		62	4.83	78.7							50
1	53	11.44	11.43	33.613	25.618	237.3		68	4.53	73.3	13.5	1.13	12.8	.26	.49	.15	53
1	64	10.96	10.95	35.657	25.739	226.1		94	4.12	66.0		1.33	16.0	.21	. 34	.16	64
,	73	10.45	10.44	33.701	25.862	214.4		13	3.81	60.4	20.1	1.49	18.7	.07	.74	.13	73
	75 15	L 10.33	10.32	33.712	25.893	211.5		18	3.74	59.1							76
•	8.7	9.98	9.97	33.748	25.990	203.4		234	3.54	55.5		1.62	20.8	.02	.11	.09	6.3
1	92	9.79	<b>₽.78</b>	33.779	26.036	198.3		252	3.40	53.1	24.9	1.70	21.9	.02	.07	-94	. 25
	100 15		7.61	43.612	26.090	193.5		159	3.26	50.8					_		171
1	103	9.5*	9.56	33.821	26.104	191.9		?73	3.22	50.1	26.8	1.76	23.1	.02	.05	.05	103
1	112	9.46	9.45	33.849	26.145	188.3		3.5	3,11	48.3		1.82	23.9	.01	.03	.04	113
1	121	9.26	9.25	33.892	26.211	182.2		509	2.93	45.3	30.3	1.72	25.0	.01	.05	.04	122
	125 15		0.20	<b>₹3.901</b>	26.226	180.8		315	7.90	44.8						_	126
1	137	9.0%	9.07	33.928	26.268	177.0		378	2.83	43.6	32.5	1.98	25.9	.01	.01	.04	118
	150 IS		P.86	53.973	26.336	170.7		60	2.64	40.5							151
1	152	8.24	8.85	33,981	26.348	169.6		363	2.61	40.0	35.0	2.07	27.1	.01			153
•	175	A 5 T	8.52					101									176 201
	500 12		8.25	34.064	26.505	155.5		41	2.31	35.0							
1	201	8.24	8.22	34.065	26.507	155.5		42	2.31	34.9		2.22	29.2	.02			572
	250 15		7.66	34.121	26.634	143.9		16	1.81	27.0		_					252
1	295	7.18	7.15	34.160	26.737	134.7		83	1.25	18.5		2.69	34.3	_01			300
	30, 12		7.13	34.162	26.741	134.4		585	1.24	13.2							302 403
	400 15		6.37	34.238	26.904	119.9		713	.60	8.7							
1	447	6.12	6.09	34.269	26.965	114.6		68	.45	6.2	78.2	3.09	39.6	.00			4.59
	500 15		5.78	34.304	27.031	10%.7		157	.38	5.4							504
	600 IS		5.30	34.364	27.136	99.6		31	.27	3.0							605
1	603	5.34	5.79	34.366	27.138	99.3	•	934	.27	3.8	95.1	3.25	42.0	.00			637

RV MEW HORIZON FRONTS LEG II STATION 57 7

とともののないとというというできます。これのできないとは、これのないないないできませんのできないというできない。これできないないできないないないできないのできない。

	TUD:	LONGITUDE 119 DP.5 W	0AY/MO/YR 22/07/85	MESSENG 2339 G		B0110#	WINP SP 320 11	EED WA		PEATHER S	BAROME 1014.9		BPY 7.8 C 1		4/9 8/9	1 11Fr 50
C#S1	nepth **	TEMP Deg c	POT TEMP DEG C	SALINITY	SIGMA THE YA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	\$103 U#/L	P04 UM/L	403 U#/L	N02	(HL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0.19	L 19.01	19.51	33.645	23.984	391.6	.000	5.50	103.7							ņ
1	1	19.(1	17.01	33.645	23.984	391.7		5.50	103.7	2.5	.24	.2	.00	.16	.01	1
	10 15		19.02	33.644	23.981	392.3		5.56	104.8					_	_	10
1	11	19.03	19.02	33.644	23.980			5.56	104.8	2.4	.25	. ?	.00	.15	.91	11
	21, ISI		10.82	13.632	24.022	329.7		5.58	104.9							50
1	2.5	18.75	18.78	33.629	24.031	397.9		5.59	104.9	2.3	.25	. 2	.00	.15	.01	??
	30 15		17.03	33.574	24.415	351.5		6.04	109.5							30
1	25	16.56	16.49	35.558	24.527	340.9		6.15	110.4	2.3	3.0	. ?	.01	. 34	.05	3.2
1	4.2	13.61	13.59	37.417	25.049	201.3		6.41	108.4	3.7	.46	2.2	.00	.74	.16	42
	50 IS		17.77	53.483	25.263			5.93	78.7					_		50
1	53	12.65	12.64	33.515	25.313			5.71	94.8	6.6	.69	5.6	.18	. 49	-12	5.1
1	6 4	11.×3	11.82	33.572	25.514			5.21	85.0		1.01	11.1	.29	. 34	.0:	63
1	74	11.13	11.12	33.611	25.674			4.75	76.4	13.8	1.23	15.0	.10	.19	-04	74
	75 15		11.02	37.619	25.696			4.66	74.7					_		76
1	84	10.45	10.44	33.674	25.842	216.6		4.05	64.2		1.45	15.6	.04	.07	.03	8.4
1	94	9.92	y.91	33.725	25.973	204.3		3.72	58.3	22.6	1.60	20.9	.0?	.05	.05	94
	100 15		9.65	33.765	26.047			3.51	54.7							101
1	105	9.52	9.53	33,795	26.092			3.37	52.4		1.72	25.9	.01	.n2	-05	105
1	114	9.32	45.0	33.865	26.172			3.08	47.7		1.85	24.5	.01	۶۰.۶	.03	115
1	124	9.18	9.14	33.906	26.236			2.89	44.6	31.4	1.93	25.4	.01	•00	-04	1:5
	125 15	1 9.16	9.15	33,910	26.241	179.4	.339	2.88	44.4							126
1	1.41	* . K?	9.81	33.973	26.345			2.74	42.0	35.1	2.05	27.1	.01	.00	.03	141
	15 15	1 4.75	9.73	33.985	26.366			2.71	41.5							151
1	155	2.72	a.70	33.9PR	26.373	167.4		2.70	41.3	35.7	5.06	27.4	.01			156
1	181	4.39	8.3P				.433									192
	200.15	L 9.25	4.23	34.038	26.523			2.08	31.4							201
1	207	A.21	⊁.19	34.101	26.540			1.97	29.8		2.35	30.7	.02			504
	25113	1 7.77	7.74	34.141	26.637			1.57	23.4							5.5
	300-15	L 7.37	7.19	34.150	26.729			1.29	19.1							302
1	30 +	7.17	7.09	34.160	26.745			1.26	18.6	58.5	2.71	35.2	.01			311
	4 nn 1 s	L 6.47	6.48	34.230	26.889	121.5		.73	10.5							404
1	465	5.12	6.08	34.277	26.972			-45	6.5	78.7	3.10	10.8	.01			466
	597 15	1 5.01	5.26	34.301	27.018			. 41	5.2							51.4
	509 15	1 5.40	5. 35	34.356	27.125	11 .7	.956	.28	4.0							615
	4 7 4	6 2r	6 26	2/ 244	27 144	26 (	1 277	7.4	1 7	04 (	1 27	42 L	0.0			425

RV NEW	HORIZ <b>ON</b>						FROI	NTS I							STATION	7
1ATITUD 33°12.7		LONGITUDE 118°59.5'W	HO/DAY/Y 07/02/85		ENGER GAT		I DEPTH		UBATION 2 2 - 2034		LAN 1300 PST		VIL TWIL 2034 PS		INTEGRAT	
DEPTH	TEMP DEG C	SALINITY	SICHA THETA	DISS 02	OXY PCT	\$103 um/1	P04 um/1	NO3	NO2	CHIL ug/l	PHAEO ug/1	LIGHT	1	UPTAKE 2	(mgC/m3) MEAN	DARK
0 10	17.84 17.46	33.709 33.708	24.324 24.415	6.06 6.37	111.8 116.6	1.8	0.23 0.23	0.3	0.02	0.60	0.03	91 34	10.4 31.6	10.6 31.8	10.5 31.7	0.24
13 20 22	15.83 13.78 13.60	33.689 33.637 33.670	24.779 25.181 25.243	6.74 6.47 6.25	119.5 110.0 105.9	1.8 2.1 3.1	0.34 0.38 0.47	0.7 2.7 3.7	0.00 0.11 0.14	0.88 1.10 1.14	0.08 0.03 0.16	24 12 10	23.0 16.7	23.3 15.6	23.2 16.2	0.40 0.24
55	11.32	33.735	25,734	4.45	71.9	9.8	1.06	11.3	0.37	0.68	0.25	0.4	0.7	1.1	0.9	0.17
RV NEW	HORIZON						FRONTS	1						Stati	ON Prodo	XBT
LATITUD 32°13.9		LONGITUDE 119°31.4°W	MO/DAY/Y 07/03/85		enger GMT		I DEPTH		UBATION 2 - 2036		LAN 1302 PS7		IL TWIL 2036 PS		INTEGRAT 390.5 a	
DRPTH B	TEMP DEG C	SALINITY	SIGMA THETA	DISS 02 ml/L	OXY PCT	SIO3 um/1	PO4 um/1	NO3	NO2	CHL ug/1	PHAEO ug/1	LIGHT	1	UPTAKE 2	(mgC/m3) MEAN	DARK
0 10 14	17.09 16.95 16.74	33.562 33.575 33.596	24.391 24.434 24.499			1.8 1.8 1.5	0.41 0.30 0.25	0.8 0.5 0.5	0.00 0.01 0.01	0.25 0.26 0.41	0.04 0.04 0.02	91 34 24	5.0 15.9	6.3	5.6 16.1	0.19
21 23	16.18 15.99	33.615 33.626	24.643 24.695			1.1 1.0	0.24	0.5	0.01	0.38	0.08	12 10	14.8	14.4	14.6 4.6	0.25 0.26
58	11.60	33.616	25.591			6.6	0.86	8.6	0.18	0.40	0.21	0.4	0.58	0.95	0.77	0.15
RV NEW	HORIZON						FRON	TS I							STATION	20
LATITUD 31°01.4		LONGITUDE 119°56.7'W	MO/DAY/Y 07/04/85		ENGER GMT		I DEPTH		BATION :		LAN 1304 PST		IL TWIL 2035 PS		INTEGRAT	
DEPTH	TEMP DEG C	SALINITY	SIGMA THETA	DISS G2 ml/L	OKY PCT	SIO3 um/1	P04 um/1	NO3 um/1	NO2 um/1	CHL ug/1	PHAEO ug/1	LIGHT	1	UPTAKE 2	(mgC/m3) MEAN	DARK
17	17.71 17.72	33.335 33.439	24.069 24.146	6.01 5.94	110.3 109.1	1.6	0.27 0.27	0.1	0.00	0.11	0.01 0.02	91 34	2.1 5.1	1.1	1.6 5.0	0.16 0.17
22 34 37	17.43 16.60 16.41	33.636 33.596 33.588	24.367 24.532 24.570	5.93 5.88 6.17	108.5 105.8 110.6	1.3 1.0 0.8	0.22 0.21 0.21	0.0 0.1 0.1	0.00 0.00 0.00	0.06 0.06 0.06	0.01 0.01 0.01	24 12 10	1.7 0.09	1.7 0.47	1.7 0.28	0.19
88	13.31	33.565	25.222	5.36	90.2	2.2	0.52	2.2	0.02	0.38	0.14	0.4	0.56	0.9	0.73	0.10
RV NEW	HORIZON						FRO	NTS I							STATIO	N 28
LATITUD 33º18.6		LONGITUDE 120°46.4'W	MO/DAY/Y 07/05/85		ENGER GMT		I DEPTH		JBATION ' 5 - 2036		LAN 1305 PSI		IL TWIL 2036 PS		INTEGRAT	
D <b>EPTH</b>	TEMP DBG C	SALINITY	SIGMA THETA	DISS 02 ml/L	OXY PCT	SI03	PO4 um/1	NO3	NO2	CHL ug/1	PHAEO ug/l	LIGHT	1	UPTAKE 2	(mgC/m3) MEAN	DARK
0 15	16.03 15.97	33.510 33.501	24.596 24.603	6.54	116.3 110.8	2.5	0.41	1.0	0.00	0.48	0.03	91 34	7.4 19.1	7.2 23.6	7.3 21.3	0.16 0.25
21 32 34	15.96 15.93 15.82	33.502 33.501 33.496	24.606 24.613 24.634	6.33	112.4	1.9 1.5 1.4	0.39 0.36 0.32	1.0 1.0 1.0	0.03 0.00 0.02	0.51 0.58 0.65	0.10 0.10 0.13	24 12 10	14.3 4.6	13.6 3.8	14.0 4.2	0.21
84 * Dark	10.90	33.608 exceeded ligh	25.712	4.76	76.1	9.9	1.27	14.7	0.00	0.18	0.13	0.4	0.64	0.48	0.56	0.14
RV NEW	HOR TZON						FRO	ITS I							STATION	17
LATITUD	2	LONGITUDE 120°33.2'W	MO/DAY/Y		ENGER		I DEPTH	1 NC	JBATION :		LAN 1307 P.ST		IL TWIL		INTEGRAT	ED VALU
30°41.0	TEMP	SALINITY	07/06/85 SIGMA	DISS O2	OXY	S103	9 m PO4	NO3	!-2035 P:	CHIL	1307 PST	LIGHT	2035 P.S.	UPTAKE	267.1 m	_
0	DEG C	33.606	THETA 24.022	m1/L 5.84	PCT 109.5	um/1	um/1 0.28	ums/1 0.4	um/1	ug/1 0.07	ug/1 0.01	<b>1</b> 91	1	0.61	MEAN 0.85	DARK 0.16
26 35 54	17.71 16.21 15.38	33.508 33.403 33.521	24.202 24.474 24.751	5.61 6.16 6.10	103.3 109.9 107.1	1.7 1.7 1.6	0.27 0.30 0.25	0.4 0.2 0.2	0.00 0.00 0.00	0.08 0.10 0.13	0.01 0.01 0.03	34 24 12	3.9	3.7	4.0 - 3.7	0.17
58 141	15.30	33.509 33.637	24 . 760 25 . 682	5.94 4.53	104.1	1.8	0.28	0.3	0.02	0.14	0.03	10	1.9	1.8	1.8	0.15

SANTA DESCRIPTOR SECRETARIA PROPERTOR (SECRETARIA) DESCRIPTOR (SECRETARIA) DESCRIPTOR SECRETARIA (SECRETARIA) DE SECRETARIA (SECR

שע אפע	HORIZON						FRON	TS I							STATION	45
LATITUD 32°51.6	g	LONGITUDE 121°42.5'W	MO/DAY/Y 07/07/85	R MESSI 2022		SECCHI 22	DEPTH	INCU	BATION 1 - 2046		LAN 1311 PST		/IL TWILI 2046 PSI		INTEGRATE	D VALUE
DEPTH	TEMP DEG C	SALINITY	SIGMA THETA	DISS O2	OXY PCT	SIO3	P04 um/1	NO3 um/1	NO2	CHL ug/l	PHAEO ug/l	LIGHT	1	UPTAKE 2	(mgC/m3) MEAN	DARK
0 14 20 30 33 80	16.66 16.24 16.12 14.45 14.48 11.92	33.228 33.273 33.300 33.241 33.299 33.353	24.235 24.366 24.415 24.736 24.774 25.327	6.13 6.28 6.30 6.56 6.56 5.88	110.2 112.0 112.1 112.8 112.9 96.0	0.8 1.6 1.8 1.6 2.2 6.1	0.20 0.34 0.39 0.28 0.35 0.74	0.4 0.5 0.5 0.3 0.3 6.8	0.00 0.02 0.01 0.00 0.01 0.19	0.17 0.27 0.28 0.34 0.25 0.38	0.01 0.03 0.04 0.06 0.05 0.15	91 34 24 12 10 0.4	3.8 12.2 - 8.5 1.7 0.92	3.7 12.0 8.5 1.8 0.49	3.7 12.1 8.5 1.8 0.71	0.16 0.19 - 0.19 0.21 0.12
RV NEW	HORIZON	i					FRON	ITS I							STATION	51
LATITUE 31°48.2		LONGITUDE 121º08.3	MO/DAY/YR 07/08/85	MRSSEI 1907		SECCHI 30			BATION T		LAN 1310 PST		IL TWILIC 2033 PST	ЖT	INTEGRATEI	
DEPTH m	TEMP DEG (	SALINITY	SIGMA THETA	DISS 02 m1/L	OXY PCT	\$103 um/1	P04 um/1	NO3	NO2 uss/1	CHL ug/1	PHAEO ug/1	LIGHT	1	UPTAKE 2	(mgC/m3) MEAN	DARK
2 21 28 41 45	17.78 17.65 17.82 16.60 16.40	33.441 33.527 33.589 33.571	24.063 24.165 24.190 24.528 24.560 25.136	5.91 5.91 6.08 6.17 6.18 5.76	108.6 108.4 112.0 111.0 110.7 98.0	1.6 1.6 1.2 1.9 1.1 2.7	0.26 0.27 0.22 0.24 0.17 0.31	0.2 0.3 0.3 0.3 0.2	0.00 0.01 0.00 0.00 0.00 0.07	0,07 0,06 0,07 0,06 0,06	0.01 0.01 0.01 0.01 0.01 0.01	91 34 24 12 10 0.4	1.1 3.6 - 2.2 0.83 0.31	1.1 3.5 - 2.2 0.75 0.50	1.1 3.5 - 2.2 0.79 0.40	0.26 0.17 0.18 0.18 0.13
RV NEW	HORIZON	i Longitude	MO/DAY/Y	R MESS	eng <i>e</i> r	SECCHI	FRON I DEPTH	ITS I	UBATION '	Time	LAN	cı.	VIL TWIL		STATION INTEGRAT	ED VALUE
32°15.6		119°50.2'W SALINITY	07/09/85 SIGMA THETA	1944 DISS 02 m1/L	OXY PCT	5103 um/1	PO4 uss/1	1305 NO3 um/1	NO2	CHL ug/1	1305 PST PHAEO ug/1	LIGHT 7	2038 PS		281.4 m (mgC/m3) MEAN	g C/m2

0.08 0.07 0.10 0.05 0.04 0.23 5.3 12.6 -9.2 2.4 0.37 5.4 15.1 -9.9 2.0 0.76 5.3 13.9 9.5 2.2 0.56

0.28 0.22 0.23 0.21 0.13

BARAGE COCCOSCO CONTROL CONTRO

17.46 17.39 16.79 15.00 14.72 11.86

33.655 33.651 33.643 33.515 33.522 33.597 24.374 24.388 24.524 24.829 24.895 25.528 6.04 5.95 6.18 6.36 6.42 5.21 110.6 108.8 111.6 110.8 111.2 85.1 1.5 1.4 1.4 1.6 1.8 7.1 0.41 0.24 0.25 0.30 0.32 0.79 0.90 0.8 0.8 1.1 1.4 8.0 0.00 0.02 0.02 0.04 0.05 0.24 0.34 0.33 0.35 0.21 0.19 0.44

RV NEW H	ORIZON						FRONTS	3 11							STATION	1 1
LATITUDE 31908.2		LONGITUDE 121°11.1'W	HO/DAY/YR 07/13/85		ENGER GHT		DEPTH		BATION T - 2030		LAN 1311 PST		IL TWILI 2035 PST		INTEGRATI	
DEPTH	TEMP DEG C	SALINITY	Sigha Theta	DISS 02 ml/L	OXY PCT	\$103 um/1	PO4 um/1	NO3	MO2	CHL ug/1	PHAEO ug/l	LICHT	1	UPTAKE 2	(mgC/m3) MEAN	DARK
1 17 24 36 39 96	19.04 19.06 19.07 16.56 16.16 13.14	33.657 33.661 33.658 33.403 33.399 33.307	23.985 23.984 23.981 23.985 24.482 25.056	5.43 5.43 5.42 5.93 5.97 5.80	102.4 102.5 102.3 106.5 106.4 97.1	2.4 2.4 2.4 2.4 3.4	0.28 0.27 0.27 0.30 0.29 0.43	0.2 0.2 0.2 0.2 0.2 1.5	0.01 0.00 0.01 0.01 0.00 0.15	0.09 0.09 0.09 0.10 0.09 0.20	0.01 0.01 0.01 0.00 0.01 0.08	91 34 24 12 10 0.4	1.4 3.5 - 2.2 0.40 0.15	1.1 3.6 - 2.0 0.38 0.30	1.3 3.6 - 2.1 0.39 0.22	0.21 0.18 - 0.22 0.24 0.14
RV NEW H	ORIŽON						FRONTS	3 11							STATION	2 12
LATITUDE 30°50.9'		LONGITUDE 121°19.9'W	MO/DAY/YR 07/14/85		enger GMT	SECCHI 30	DEPTH m		BATION T - 2030		LAN 1311 PST		IL TWILI 2035 PST	GHT	INTEGRATI 97.6 mg	
DEPTH B	TEMP DEG C	SALINITY	SIGMA THETA	DISS 02 ml/L	OXY PCT	S103 um/1	PO4 um/1	NO3	NO2	CHL ug/l	PHAEO ug/l	LIGHT	1	UPTAKE 2	(mgC/m3) HEAN	DARK
2 23 29 42 46 111	18.70 18.73 16.29 15.26 15.05 12.44	33.502 33.514 33.366 33.339 33.337 33.376	23.953 23.957 24.426 24.637 24.681 25.247	5.47 5.42 5.94 6.06 6.05 5.34	102.4 101.5 106.1 106.0 105.4 88.1	2.1 2.1 2.2 2.0 2.1 5.6	0.35 0.36 0.36 0.40 0.38 0.68	0.2 0.2 0.2 0.2 0.1 5.1	0.00 0.00 0.00 0.00 0.00 0.05	0.08 0.09 0.09 0.10 0.12 0.23	0.00 0.00 0.01 0.01 0.01 0.20	91 34 24 12 10 0.4	1.7 2.3 - 1.3 0.31 0.13	1.6 2.3 1.2 0.29 0.33	1.6 2.3 - 1.2 0.30 0.23	0.21 0.21 - 0.20 0.20 0.12
RV NEW H	ORIZON						FRONTS	: II							STATION	5 3
LATITUDE 31°35.8'		LONGITUDE 120°55.8'W	MO/DAY/YR 07/15/85		enger Ght	SECCHI 30	DEPTH		ATION T - 2030		LAN 1306 PST		IL TWILI 2030 PST	GHT	INTEGRATE	
DEPTH B	TEMP DEG C	SALINITY	SIGNA THETA	D138 02 m1/L	OXY PCT	S103	PO4 um/1	NO3	NO2	CHIL ug/l	PHARO ug/1	LIGHT	1	UPTAKE 2	(mgC/m3) HEAN	DARK
2 22 29 42 46 111	18.19 18.18 18.18 16.32 15.70 12.15	33.611 33.615 33.615 33.501 33.446 33.476	24.163 24.170 24.170 24.524 24.624 25.381	5.50 5.52 5.51 5.91 5.99 5.14	102.1 102.4 102.2 105.7 105.8 84.4	2.3 2.2 2.2 2.2 2.5 7.2	0.32 0.32 0.32 0.32 0.33 0.79	0.2 0.2 0.2 0.2 0.2 7.9	0.00 0.00 0.00 0.00 0.00 0.04	0.10 0.08 0.09 0.11 0.12 0.18	0.02 0.01 0.00 0.02 0.01 0.12	91 34 24 12 10 0.4	2.1 3.4 - 2.0 0.51 0.16	1.9 3.0  2.0 0.43 0.28	2.0 3.2 2.0 0.47 0.22	0.19 0.19 - 0.21 0.22 0.12
rv new h	ORIZON						FRONTS	: 11							STATION 1	0 3
LATITUDE 32°38.0'		LONGITUDE 120°21.7'W	MU/DAY/YR 07/16/85		ENGER GMT	SECCHI 23	DEPTH		BATION T - 2035		LAN 1309 PST		IL TWILE 2039 PST	GHT	INTEGRATE 272,2 m	
DEPTH m	TEMP DBG C	SALINITY	SIGMA THETA	DISS 02	OXY PCT	8103 um/1	PO4 um/1	NO3 um/1	NO2	CHL ug/1	PHABO ug/1	LIGH	T 1	UPTAK 2	E (mgC/m3) MEAN	) DARK
1 16 22 33 35 46	16.64 16.41 16.02 14.40 14.03 11.21	33.288 33.296 33.329 33.302 33.463	24.285 24.434 24.815 24.871 25.543	5.78 5.82 5.89 6.25 6.30 4.92	103.9 104.6 107.4 107.5 79.2	1.7 1.7 1.7 2.1 2.2 10.6	0.39 0.41 0.39 0.44 0.47	0.5 0.5 0.4 0.8 0.9	0.01 0.01 0.03 0.03 0.03	0.20 0.21 0.23 0.23 0.29 0.12	0.08 0.08 0.07 0.07	24	5.7 8.6 - 5.5 1.7 0*	5.7 7.7 - 4.9 1.5 0.06	5.7 8.2 - 5.2 1.6 0.03	0.19 0.22 - 0.17 0.19 0.32
* Dark u	ptake	exceeded light	uptake.													
RY NEW H	ORIZON						FRONTS	11							STATION 1	2 3
1ATITUDE 32º09.7'		LONGITUDE 120°37.8'W	MO/DAY/YR 07/17/85	MESS 1823	ENGER GMT	SECCHI 23			ATION T		LAN 1303 PST		IL TWILIC		INTEGRATE 322.2 mg	
DEPTH	TEMP DEG C	SALINITY	SIGMA I	DISS 02 ml/L	OXY PCT	SIO3	PO4 um/1	NO3	NO2 um/1	CHL ug/l	PHABO ug/1	LIGHT	1	UPTAKE	(mgC/m3) HEAN	DARK
1 17 21 33 35 86	16.80 16.32 16.02 15.29 15.20 12.02	33.283 33.337 33.406 33.384 33.372 33.480	24.244 24.397 24.519 24.664 24.675 25.408	5.78 5.88 5.97 6.09 6.11 5.16	104.2 105.1 106.1 106.6 106.8 84.5	1.6 1.6 1.7 1.8 7.5	0.28 0.30 0.29 0.30 0.31 0.78	0.3	0.00 0.01 0.01 0.01 0.01 0.13	0.15 0.28 0.22 0.18 0.16 0.21	0.15 0.08 0.06	91 34 24 12 10 0.4	3.3 14.0 - 4.1 1.1 0.20	3.0 13.3 4.6 1.0 0.42	3.1 13.6 	0.32 0.32 0.18 0.25 0.14

SOURCE TO THE TATABLE TO THE PROPERTY OF THE P

RV NEW 1	HORIZON	i					FRONT	S II							STATION 1	8 4
LATITUDI 30°47.9		LONGITUDE 121°19.2'W	MO/DAY/YR 07/18/85	MESSI 1904			I DEPTH		BATION T - 2040		LAN 1311 PST		IL TWILI 2035 PST		INTEGRATE	
DEPTH B	TEMP DEG (	SALINITY	SIGMA THETA	DISS 02 ml/L	PCT	SI03	PO4 um/1	NO3 um/1	NO2 um/1	CHL ug/1	PHAEO ug/l	LIGHT	1	UPTAKE 2	(mgC/m3) MEAN	DARK
2 23 30	19.09 18.84 16.54	33.568 33.364	23.931 23.971 24.368	5.43 5.45 5.94	102.5 102.4 106.6	2.6 2.6 2.5	0.33 0.33 0.35	0.3 0.3 0.3	0.00	0.10 0.10 0.11	0.00 0.01 0.01	91 34 24	1.1 2.5	0.98 3.0	1.1	0.19
44 47 115	15.41 15.26 12.46	33.332	24.606 24.633 25.255	6.05 6.08 5.30	106.1 106.3 87.5	2,5 2,5 5,8	0.34 0.34 0.68	0.3 0.3 5.5	0.00 0.00 0.05	0.12 0.14 0.16	0.02 0.02 0.25	12 10 0.4	2.1 0.75 0.26	1.9 0.68 0.45	2.0 0.71 0.36	0.22 0.21 0.10
RV NEW I	HORIZON	N					FRONT	s II							STATION 2	0 4
LATITUDI 31°22.4		LONGITUDE 121°03.8'W	MO/DAY/YR 07/19/85	MESSI 1819			I DEPTH		BATION 7 2 - 2030		LAN 1311 PST		IL TWILI 2035 PST		INTEGRATE	
DEPTH m	TEMP DEG C	SALINITY	SIGHA THETA	DISS 02	OXY PCT	SIO3	P04 um/1	NO3 um/1	NO2 um/1	CHL ug/1	PHAEO ug/1	LIGHT	1	UPTAKE 2	(mgC/m3) MEAN	DARK
2 23 30	18.83 18.69 16.86	33.557	23.909 23.998 24.317	5.44 5.48 5.87	102.1 102.6 106.0	3.0 3.0 3.1	0.33 0.32 0.34	0.0 0.0 0.0	0.00 0.00 0.00	0.08 0.09 0.12	0.01 0.12 0.02	91 34 24	0.76 3.4	0.62 2.9	0.69 3.1	0.15 0.16 - 0.20
44 47 115	15.46 15.19 12.10	33.348	24.609 24.660 25.345	6.06 6.04 5.10	106.4 105.5 83.6	3.0 3.0 6.6	0.34 0.34 0.79	0.0 0.0 7.0	0.00 0.00 0.03	0.12 0.14 0.19	0.02 0.02 0.19	12 10 0.4	2.8 1.0 0.34	3.0 1.0 0.53	2.9 1.0 0.43	0.23 0.12
rv new 1	HOR I ZO	N					FRONT	s II							STATION 2	6 4
1ATITUD 32°40.6		LONGITUDE 120°19.4'W	MO/DAY/YE 07/20/85		ENGER GMT		I DEPTH		JBATION : B - 2039		LAN 1307 PST		IL TWILL 2034 PST		INTEGRATE	
DEPTH	TEMP DBG (	SALINITY	SIGMA THETA	DISS O2 ml/L	ORY PCT	<i>5103</i> um/1	PO4 um/1	NO3 um/1	NO2	CHL ug/1	PHAEC ug/l	LIGHT	1	UPTAKE 2	(mgC/m3) MEAN	DARK
1 15 20 29		33.339 33.398 33.411 33.402		5.79 5.96 6.03 6.32		2.1 2.6 2.4 2.7	0.39 0.41 0.44 0.53	0.1 0.2 0.3 1.0	0.00 0.02 0.02 0.04	0.14 0.22 0.19 0.36	0.04 0.10 0.10 0.13	91 34 24 12	3.1 12.3 - 9.8	1.6 9.8 - 9.3	2.3 11.1 - 9.6	0.23 0.24 - 0.21
30 75		33.414 33.430		6.30 5.15		2.9	0.49	1.1	0.05	0.36 0.12	0.13	10 0.4	3.9 0.12	3.3 0.23	3.6 0.18	0.24
RV NEW !	HORIZO	N					FRONT	s 11							STATION 2	a 3
LATITUD 32°25.5		LONGITUDE 121°21.4'W	MO/DAY/YI 07/21/85		enger GMT		I DEPTH		UBATION : 7 - 2031		LAN 1304 PST		IL TWIL! 2035 PSI		INTEGRATE 208.7 mg	
DEPTH	TEMP DEG (	SALINITY	SIGNA THETA	DISS O2	OXY	SI03	P04 um/1	NO3 um/1	NO2 um/1	CHL ug/l	PHARO ug/1	LIGHT Z	1	UPTAKE 2	(mgC/m3) MEAN	DARK
1 9 12	16.80 16.83 16.82	33.319 33.326	24.261 24.267 24.273	5.80 5.82 5.83	104.6 105.0 105.2	2.8 2.8 2.9	0.37 0.38 0.38	0.2 0.2 0.3	0.01 0.01 0.02	0.31 0.32 0.33	0.04 0.02 0.1	91 34 24	3.0 13.4	3,3	3.1 12.6	0.19
19 21 48	16.57 16.36 14.69	33.371	24.357 24.414 24.685	5.90 5.92 6.14	105.9 105.9 106.1	3.2 3.3 3.2	0.40 0.43 0.43	0.5 0.9 0.6	0.02 0.03 0.01	0.33 0.35 0.33	0.05 0.06 0.08	12 10 0.4	7.0 2.6 0.12	7.1 2.1 0.32	7.0 2.4 0.22	0.24 0.21 0.16

## FRONTS LEG II MACROZOOPLANKTON BIOMASS BONGO Nets 71 cm mouth diameter Net Mesh Size 0.505 mm

	Date	Time	(local)		r Volume ned (m³)	Volum	e (cm³) per m³ Filtered
Station	1985	Start	Stop	Port	Stbd	Port	Stbd
			•				
2	7/13	1546	1608	347	334	35	36
2	7/13	1637	1659	330	329	46	36
2	7/13	1703	1725	338	339	36	32
2	7/14	0015	0038	322	322	102	78
2	7/14	0044	0106	<b>32</b> 1	<b>32</b> 1	78	78
2	7/14	0113	0135	318	324	69	93
3	7/15	0133	01.3	266	266	113	105
3	7/15	0202	0224	315	315	98	95
3	7/15	0230	0253	336	342	92	88
5	7/15	1236	1259	297	296	98	101
5	7/15	1303	1325	312	310	96	87
5	7/15	1330	1353	<b>308</b>	305	101	92
7	7/15	1737	1759	311	309	263	214
7	7/15	1807	1829	304	301	198	183
7	7/15	1835	1857	300	<b>29</b> 8	173	171
9	7/16	0120	0143	342	338	161	151
9	7/16	0149	0211	343	341	119	141
9	7/16	0219	0242	358	356	140	132
10	7/16	1621	1642	295	293	227	212
10	7/16	1653	1714	300	297	206	189
10	7/16	1723	1744	299	296	227	206
10	7/17	0016	0039	319	315	251	228
10	7/17	0047	0109	322	319	221	213
10	7/17	0118	0140	350	346	243	. 254
11	7/17	0552	0614	321	317	109	110
12	7/17	1209	1230	321	318	162	179
13	7/17	1405	1426	319	315	135	143
14	7/17	1708	1729	292	288	175	177
15	7/17	2001	2023	303	297	99	104
16	7/17	2320	2342	312	308	119	114
17	7/18	0249	0310	297	292	94	93
18	7/18	1016	1038	313	310	70	71
18	7/19	0044	0106	305	301	88	100
19	7/19	0454	0516	301	297	86	84
20	7/19	0811	0832	314	311	70	74
21	7/19	1325	1346	<b>29</b> 6	<b>30</b> 1	91	96
22	7/19	1659	1720	287	284	157	137
23	7/19	2034	2055	286	284	154	159
24	7/20	0018	0040	317	312	180	176
25	<b>7/2</b> 0	0344	0406	323	318	152	129
26	7/20	1000	1021	288	285	<b>26</b> 0	253
26	7/21	0018	0040	335	319	209	197

## FRONTS LEG II MACROZOOPLANKTON BIOMASS BONGO Nets 71 cm mouth diameter Net Mesh Size 0.505 mm

	_		<i>(</i> )		r Volume		e (cm³) per
	Date	Time	(local)	Stran	ned (m³)	1000 n	n <sup>3</sup> Filtered
Station	1985	Start	Stop	Port	Stbd	Port	Stbd
27	7/21	0617	0628	<b>32</b> 0	316	194	177
28	7/21	1129	1150	313	309	144	123
29	7/21	1402	1423	333	316	201	193
30	7/21	1645	1707	312	302	144	1 <b>2</b> 6
31	7/21	1925	1947	349	347	146	115
32	7/21	2216	2238	312	332	195	154
33	7/22	0102	0122	239	240	113	96
33	7/22	0138	0200	334	326	120	129
34	7/22	0501	0523	327	325	128	129
35	7/22	0737	0759	312	304	164	148
36	7/22	1130	1153	334	330	93	106
37	7/22	1507	1549	363	343	88	90

## FRONTS LEG II MACROZOOPLANKTON BIOMASS MOCNESS 1 m<sup>2</sup> mouth area Net Mesh Sise 0.333 mm

		Date	Time	(Local)			Water Volume	Volume (cm²) per
Station	Tow No.	1985	Start	Stop	Sample No.	Depth (m)	Strained (m <sup>3</sup> )	1000 m <sup>3</sup> Filtered
				_	-	- , ,	• •	
2	MOC-1	7/14	1324	1608	MOC 1-1	1000-850	<b>520</b>	89
					MOC 1-2	850-700	422	70
					MOC 1-3	700-550	473	36
					MOC 1-4	550-400	812	20
					MOC 1-5	400-300	277	62
					MOC 1-6	300-250	216	91
					MOC 1-7	250-225	146	101
					MOC 1-8	225-190	154	138
					MOC 1-9 MOC 1-11	190-0 100-175	1650 164	57
					MOC 1-11 MOC 1-12	190-175 175-150	356	1 <b>22</b> 81
					MOC 1-12 MOC 1-13	150-125	173	88
					MOC 1-13 MOC 1-14	125-100	263	72
					MOC 1-15	100-72	223	81
					MOC 1-16	72-50	154	179
					MOC 1-17	50-25	178	102
					MOC 1-18	25-0	139	92
					MOO 1-10	20-0	100	••
2	MOC-2	7/14	2028	2317	MOC 2-1	1000-845	608	50
					MOC 2-2	845-700	390	62
					MOC 2-3	700-545	<b>525</b>	46
					MOC 2-4	545-400	530	44
					MOC 2-5	400-300	377	74
					MOC 2-6	300-250	283	76
					MOC 2-7	250-225	148	101
					MOC 2-8	225-200	209	100
					MOC 2-9	200-0	1409	83
					MOC 2-11	192-175	225	85
					MOC 2-12	175-150	170	122
					MOC 2-13	150-125	235	112
					MOC 2-14	125-100	214	120
					MOC 2-15	100-75	138	165
					MOC 2-16	<b>75-50</b>	155	197
					MOC 2-17	50-25	131	161
					MOC 2-18	<b>25-</b> 0	141	162
10	MOC-3	7/16	1220	1502	MOC 3-1	975-820	371	81
					MOC 3-2	820- 700	522	125
					MOC 3-3	700-550	503	121
					MOC 3-4	550-400	773	84
					MOC 3-5	400-300	386	64
					MOC 3-6	300-250	259	104
					MOC 3-7	250-225	191	118
					MOC 3-8	225-200	162	184
					MOC 3-9	200-0	1277	195
					MOC 3-11	195-165	165	132
					MOC 3-12	165-150	122	171

STATE TOWNS SOURCES STATEMENT SOURCES STATEMENT STATEMEN

## FRONTS LEG II MACROZOOPLANKTON BIOMASS MOCNESS 1 m<sup>2</sup> mouth area Net Mesh Sise 0.333 mm

		Date	Time	(Local)			Water Volume	Volume (cm³) per
Station	Tow No.	1985	Start	Stop	Sample No.	Depth (m)	Strained (m <sup>3</sup> )	1000 ms Filtered
							,	
					MOC 3-13	150-125	212	169
					MOC 3-14	125-100	146	237
					MOC 3-15	100-	•	*
					MOC 3-16	-50	312	473
					MOC 3-17	50-25	173	598
					MOC 3-18	<b>25-</b> 0	147	344
							* Samples combine	ed due to net failure
10	MOC-4	7/16	2023	2250	MOC 4-1	1000-825	557	63
		•			MOC 4-2	825-700	442	109
					MOC 4-3	700-550	405	143
					MOC 4-4	550-400	404	123
					MOC 4-5	400-300	335	90
					MOC 4-6	300-250	142	154
					MOC 4-7	250-225	156	163
					MOC 4-8	225-200	160	255
					MOC 4-9	200-0	895	199
					MOC 4-11	190-175	64	289
					MOC 4-12	175-150	153	239
					MOC 4-13	150-125	95	331
					MOC 4-14	125-100	117	392
					MOC 4-15	100-75	130	341
					MOC 4-16	75-50	82	<b>62</b> 0
					MOC 4-17	50-25	111	856
					MOC 4-18	25-0	141	571
18	MOC-5	7/18	1222	1506	MOC 5-1	1000-850	427	61
10	MOC-5	1/10	1224	1900	MOC 5-2	850-700	892	43
					MOC 5-3	700-550	528	<b>37</b>
					MOC 5-4	550-400	602	34 34
					MOC 5-5	400-300	435	68
					MOC 5-6	\$00-250	243	97
					MOC 5-7	250-225	183	110
					MOC 5-8	225-200	177	115
					MOC 5-9	200-0	1390	51
					MOC 5-11	200-175	174	97
					MOC 5-12	175-150	196	152
					MOC 5-13	150-125	181	111
					MOC 5-14	125-100	172	130
					MOC 5-15	100-75	150	285
					MOC 5-16	75-50	157	119
					MOC 5-17	50-25	190	83
					MOC 5-18	25-0	170	75
18	MOC-6	7/18	2108	0002	MOC 6-1	1000-812	814	27
					MOC 6-2	812-700	382	33
					MOC 6-3	700-550	605	27

## FRONTS LEG II MACROZOOPLANKTON BIOMASS MOCNESS 1 m<sup>2</sup> mouth area Net Mesh Sise 0.333 mm

		Date Time (Local)				Water Volume	Volume (cm <sup>3</sup> ) per	
Station	Tow No.	1985	Start	Stop	Sample No.	Depth (m)	Strained (m <sup>3</sup> )	1000 m <sup>3</sup> Filtered
Deadlon	100 110.	2000		Doop	p.c	<b>F</b> ()	( )	
					MOC 6-4	550-400	578	34
					MOC 6-5	400-300	485	56
					MOC 6-6	300-250	255	102
					MOC 6-7	250-225	135	132
					MOC 6-8	225-200	168	131
					MOC 6-9	200-0	1546	72
					MOC 6-11	200-175	<b>26</b> 0	96
					MOC 6-12	175-150	231	114
					MOC 6-13	150-125	149	133
					MOC 6-14	125-100	183	136
					MOC 6-15	100-75	166	209
					MOC 6-16	75-50	228	**
					MOC 6-17	<b>50-25</b>	176	153
					MOC 6-18	25-0	153	231
								** Cod end lost
26	MOC-7	7/20	1213	1502	MOC 7-1	1000-830	598	50
		- / -			MOC 7-2	830-700	471	76
					MOC 7-3	700-550	767	47
					MOC 7-4	550-400	614	58
					MOC 7-5	400-300	505	89
					MOC 7-6	300-250	179	126
					MOC 7-7	250-225	112	
					MOC 7-8	225-200	128	278
					MOC 7-9	200-0	1183	199
					MOC 7-11	200-175	262	148
					MOC 7-12	175-150	154	161
					MOC 7-13	150-120	125	324
					MOC 7-14	120-100	81	386
					MOC 7-15	100-75	129	389
					MOC 7-16	75-50	149	565
					MOC 7-17	50- <b>2</b> 5	<b>12</b> 0	765
					MOC 7-18	25-0	163	188
26	MOC-8	7/20	2011	2315	MOC 8-1	1000-820	676	48
					MOC 8-2	820-700	496	51
					MOC 8-3	700-540	449	54
					MOC 8-4	540-400	587	93
					MOC 8-5	400-300	420	94
					MOC 8-6	<b>300-250</b>	367	127
					MOC 8-7	250-210	257	169
					MOC 8-8	227-192	360	163
					MOC 8-9	200-0	1141	218
					MOC 8-11	190-175	76	250
					MOC 8-12	175-150	168	199
					MOC 8-13	150-125	241	268
					MOC 8-14	125-100	105	387

AND EXERCISE BEFORE THE PROPERTY OF THE PROPER

# FRONTS LEG II MACROZOOPLANKTON BIOMASS MOCNESS 1 m<sup>3</sup> mouth area Net Mesh Size 0.333 mm

Station	Tow No.	Date 1985	Time (	(Local) Stop	Sample No. Depth (m)	Water Volume Strained (m <sup>3</sup> )	Volume (cm <sup>8</sup> ) per 1000 m <sup>8</sup> Filtered	
					MOC 8-15	100-75	111	511
					MOC 8-16	75-50	191	497
					MOC 8-17	50-25	133	744
					MOC 8 18	98.0	116	1079

## **DISTRIBUTION LIST**

## INTER-AMERICAN TROPICAL TUNA COMMISSION (C/O SCRIPPS INSTITUTION OF OCEANOGRAPHY)

DR. JAMES JOSEPH

## NATIONAL MARINE FISHERIES SERVICE (C/O SCRIPPS INSTITUTION OF OCEANOGRAPHY)

**DIRECTOR'S OFFICE** 

MR. RON DOTSON

MR. WILLIAM C. FLERX

DR. REUBEN LASKER

DR. A. ALVARINO DE LEIRA

LIBRARY

MR. RONALD J. LYNN

DR. GEOFFREY MOSER

DR. ROBERT OWEN, JR.

MR. NELSON C. ROSS, JR.

DR. PAUL, SMITH

## SCRIPPS INSTITUTION OF OCEANOGRAPHY

DR. MARK ABBOTT

DR. LAURENCE ARMI

DR. ROBERT L. BERNSTEIN

DR. EDWARD BRINTON

DR. RICHARD W. EPPLEY

DR. ABRAHAM FLEMINGER

DR. JORIS M. T. M. GIESKES

DR. LOREN R. HAURY

DR. THOMAS L. HAYWARD

DR. GEORGE A. JACKSON

MRS. KITTIE KUHNS

LIBRARY, SIO (DR. PETER BRUEGGEMAN)

LIBRARY, SIO (STELLA WADE) (4)

MR. ARNOLD W. MANTYLA

DR. JOHN A. McGOWAN

DR. W. A. NIERENBERG

DR. PEARN P. NIILER

PROF. JOSEPH L. REID

DR. RICHARD H. ROSENBLATT

MR. RICHARD A. SCHWARTZLOSE

DR. JAMES J. SIMPSON

DR. KENNETH L. SMITH

MR. GEORGE H. SNYDER

DR. ROBERT E. STEVENSON

DR. MIZUKI TSUCHIYA

## AFRICA

M. Henri Rotschi Centre de Recherches Oceanographiques 29, Rue des Pecheurs B P V 18 - Abidjam Republique de Cote d'Ivoire

## AUSTRALIA

Dr John A. T Bye Flinders Institute for Atmospheric and Marine Sciences The Flinders University of S.A Bedford Park 5042, S.A. Australia

Prof. R. Radok, Director Horace Lamb Institute of Oceanography P. O. Box 167 Kingswood 5062, S.A. Australia

## CANADA

Director Institute of Oceanography University of British Columbia Vancouver, B.C. V6T 1W5 Canada

Library
Pacific Biological Station
Fisheries and Marine Service
Nanaimo, B.C. V9R 5K6
Canada

Dr. C. S. Wong Institute of Ocean Sciences Department of Fisheries and Environment. P. O. Box 6000 Sidney, B.C. V8L 4B2 Canada

Library Science Services Dalhousie University Halifax, N.S. B3H 4J3 Canada

Dr. Cedric R. Mann Institute of Ocean Sciences 9860 West Saanich Road Sidney, B.C. V8L 4B2 Canada

## GERMANY

うけい 神像の かんとく かん 金属 アイス・アイン かんぱい グラング アイ・ド たんかん かんかん 発力 しょうしゅうない

Akademie der Wissenschaften der DDR Institut für Meereskunde Bibliothek 253 Warnemunde German Democratic Republic

Deutsches-Hydrographisches Institut Tauschstelle Postlach 220 Bernhard-Hocht-Str 78 D-2000 Hamburg Federal Republic of Germany Dr. Reimer Simonsen Institut für Meeresforschung 285 Bremerhaven Am Handelshafen 12 Fede, al Republic of Germany

## ICELAND

Dr. Unnsteinn Stefansson Hafrannsoknastofnunin Skutagata 4 Reykjavík Icef ind

#### JAPAN

Dr Kiyomitsu Kitano Hokkaido Regional Fisheries Research Laboratory Katsurakoi 116, Kushiro City Hokkaido Japan

Director Kobe Marine Observatory Nakayamate 7 Kobe, 650 Japan

The Public Health Institute of Hyogo Prefecture Arata-Cho, Hyogo-Ku 2-1 Kobe Japan

Prof. Hideo Kawai Kyoto University Department of Pisheries Faculty of Agriculture Kyoto Japan

Director Japan Oceanographic Data Center Hydrographic Department Maritime Safety Agency No. 3-1, 5 Chome, Tsukiji Chuo-Ku, Tokyo Japan 104

Library Ocean Research Institute University of Tokyo Nakano-Ku, Tokyo Japan

Oceanography Division
Marine Department
Japan Meteorological Agency
1-3-4 Ohte-Machi, Chiyoda-Ku
Tokyo, 100
Japan

## KOREA

Library
Fisheries Research and
Development Agency
16-2KA, Namhang Dong
Youngdo-Ku Busan 606
Korea

#### MEXICO

Biblioteca Centro de Investigación Cientifica y Educación Superior de Ensenada Apartado Postal 2732 Ensenada, Baja California Mexico

Biblioteca Instituto Nacional de Pesca Centro de Investigación Pesquera Apartado Postal 1306 Ensenada, Baja California Mexico

Biblioteca
Unidad de Ciencias Marinas
Universidad Autonoma de Baja
California
Apartado de Correos 453
Ensenada, Baja California
Mexico

Biblioteca, U.N.A.M. Centro de Ciencias del Mar y Limnologia Apartado Postal 811 Mazatlan, Sinaloa Mexico

Biblioteca Centro de Promocion Pesquera Apartado Postal 396 Mazatlan, Sinalos Mexico

Biblioteca
Centro de Investigación Pesquera
Sección de Hidrológia
Instituto Nacional de Pesca
Apartado Postal 550
Mazatlan, Sinalioa
Mexico

American Embassy (4) Regional Fishery Attache Apartado Postal 83-BIS Mexico 1, D F Mexico

Biblioteca Departmento de Pesca Alvaro Obregon 269 Mexico 7, D.F Mexico

Biblioteca
Universidad Nacional Autonoma
de Mexico
Apartado Postal 70-223
Mexico 20, D F
Mexico

Director
Inst. de Geofisica
Torre de Ciencias, 3ER Piso
Universidad Nacional Autonoma
de Mexico
Villa Obregon, D F
Mexico

#### NEW ZEAL AND

Director
New Zealand Oceanographic Institute
P. O. Box 8009
Wellington
New Zealand

## PERU

Biblioteca, Instituto del Mar Apartado Postal 22 Callao Peru

## UNITED KINGDOM

Science Reference Library (A) 25 Southampton Buildings Chancery Lane London WC2A IAW England United Kingdom

Library
Subscription Department
New South Wales Government Offices
66 Strand
London, WC2N 5LZ, England
United Kingdom

Library
Fisheries Laboratory
Ministry of Agriculture, Fisheries
and Food
Lowestoft, Suffolk
NR33 OHT, England
United Kingdom

Head of Library and Information Service Plymouth PL1 2PB, England United Kingdom

Library
Inst of Oceanographic Science
Wormley, Godalming
Surrey GU8 5UB, England
United Kingdom

Library
Department of Agriculture and
Fisheries for Scotland
Marine Laboratory
P. O. Box 101, Victoria Road
Torry, Aberdeen AB9 8DB, Scotland
United Kingdom

## UNITED STATES

## ALASKA

Library Institute of Marine Science University of Alaska College, AK 99701

## **CALIFORNIA**

Library — Serials Humboldt State University Arcata, CA 95521

Marine Technical Information Center Department of Fish and Game 245 W. Broadway, Suite 350 Long Beach, CA 90802

Dr. Donn S. Gorsline Department of Geology University of Southern California Los Angeles, CA 90007

Hancock Library of Biology and Oceanography University of Southern California Los Angeles, CA 90007

James V. Gardner Geological Survey Branch of Pacific Marine Geology 345 Middlefield Road, MS999 Menio Park, CA 94025

Naval Environmental Prediction Research Facility Monterey, CA 93940

Prof. C. N. K. Mooers, Chairman Department of Oceanography U. S. Naval Postgraduate School Monterey, CA 93940

Director
Pacific Environmental Group
NMFS/NOAA
C/O Fleet Numerical Weather Central
Monterey, CA 93940

Commanding Officer (Code 40) (2) Fleet Numerical Weather Central Monterey, CA 93940

Library
Geology-Oceanography Department
California State University
Northridge, CA 91324

Dr. Donald J Collins Jet Propulsion Laboratory California Institute of Technology 4800 Oak Grove Drive Pasadena, CA 91109

E. J. List Jet Propulsion Laboratory California Institute of Technology 4800 Oak Grove Drive Pasadena, CA 91109

Ocean Remote Sensing Library Jet Propulsion Laboratory California Institute of Technology 4800 Oak Grove Drive Pasadena, CA 91109

Officer in Charge (Code L31) Civil Engineering Laboratory Naval Construction Battalion Center Port Hueneme, CA 93043 Bernard Cohenour Code 3144, Bldg. 514 Pacific Missile Test Center Point Mugu, CA 93042

Director Operations Research Branch Department of Fish and Game 1416 Ninth Street Sacramento, CA 95814

Mr. David Farris Department of Biology San Diego State University San Diego, CA 92182

Library Department of the Navy Naval Ocean Systems Center San Diego, CA 92152

Library
San Diego Society of Natural History
P. O. Box 1390
San Diego, CA 92112

Eric Shulenberger San Diego Natural History Museum P. O. Box 1390 San Diego, CA 92112

Library California Academy of Sciences Golden Gate Park San Francisco, CA 94118

Director Center for Coastal Marine Studies University of California Santa Cruz, CA 95064

NMFS/NOAA Tiburon Laboratory 3150 Paradise Drive Tiburon, CA 94920

## CONNECTICUT

Prof. George Veronis Department of Geology and Geophysics Yale University P. O. Box 2161, Yale Station New Haven, CT 06520

## FLORIDA

R.S.M.A.S. Library University of Miami 4600 Rickenbacker Causeway Miami, FL 33149

Library Southwest Fisheries Center NMFS/NOAA 75 Virginia Beach Drive Miami, FL 33149

#### HAWAII

Library Southwest Fisheries Center NMFS/NOAA P. O. Box 3830 Honolulu, HI 96812

## MAINE

Director Center for Marine Studies University of Maine Orono, ME 04469

#### MARYLAND

Secretary for Publications Chesapeake Bay Institute The Johns Hopkins University Baltimore, MD 21218

Acquisitions Section, IRDB/D823 Library and Information Services Division, NOAA 6009 Executive Blvd. Rockwille, MD 20852

Chief
Oceanic Services Division (W16)
Office of Meteorology and
Oceanography
National Weather Service
8060 13th Street, Room 1213
Silver Spring, MD 20910

## MASSACHUSETTS

Dr. John M. Edmond Department of Earth and Planetary Sciences Bldg. 54, Room 1326 Mass. Institute of Technology Cambridge, MA 02139

Prof. Henry M. Stommel Dept. of Physical Oceanography Woods Hole Oceanographic Inst. Woods Hole, MA 02543

Dr. Bruce A. Warren Woods Hole Oceanographic Inst Woods Hole, MA 02543

Dr. L. V. Worthington Woods Hole Oceanographic Inst. Woods Hole, MA 02543

## MISSISSIPPI

NAV OCEAN NSTL Station, MS 39522

## **NEW JERSEY**

Princeton Geology Library Department of Geological and Geophysical Sciences Guyot Hall Princeton University Princeton, NJ 08540

## **NEW YORK**

Prof. Gerhard Neumann Department of Meteorology and Oceanography New York University Bronx, New York, NY 10453

Dr. Arnold L. Gordon Lamont-Doherty Geological Observatory of Columbia Univ. Palisades, NY 10964

## OREGON

Pattulio Study School of Oceanography Oregon State University Corvallis, OR 97331

Pacific Marine Fisheries Commission 528 S. W. Mill Portland, OR 97201

## RHODE ISLAND

Pell Marine Science Library University of Rhode Island Narragansett Bay Campus Narragansett, RI 02882

## TEXAS

Working Collection Department of Oceanography Texas A&M University College Station, TX 77843

## VIRGINIA

Professor Ronald E. Johnson Institute of Oceanography Old Dominion University Norfolk, VA 23508

## WASHINGTON

Library Fisheries-Oceanography WB-30 151 Oceanography Teaching Bldg. University of Washington Seattle, WA 98195

Prof. Gunnar I. Roden Dept. of Oceanography WB-10 University of Washington Seattle, WA 98195

## WASHINGTON, D.C.

British Navy Staff
British Embassy
3100 Massachusetts Avenue, N.W.
Attn. Scientific Information Officer
Washington, DC 20008

Commander (2) U. S. Naval Oceanographic Office Library Code 3330 Washington, DC 20373

Director (3)
National Oceanographic Data Center
NOAA
Washington, DC 20235

Director (6) World Data Center A NOAA Washington, DC 20235

Dr. Robert H. Gibbs, Jr. Division of Fisheries U. S. National Museum Washington, DC 20560

Director National Marine Fisheries Service NOAA Washington, DC 20235 Charles Carrier Charles Charle